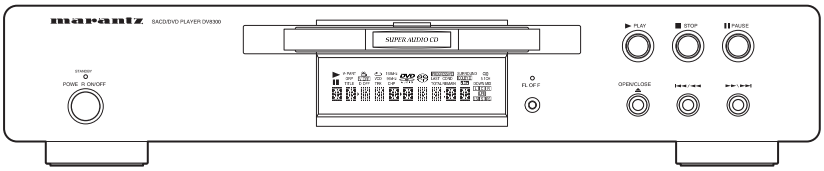
Service Manual

DV8300 /C1G/F1N/L1G/N1G/S1G /A1B/N1B/U1B

SACD/DVD Player



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DB-VLD302 (DVD LOADER FOR MARANTZ)

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DB-VPB305 (DVD PCB MODULE FOR MARANTZ)

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Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

DV8300

02AK855010 MIT
First Issue 2002.06

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC
1100 MAPLEWOOD DRIVE
ITASCA, IL. 60143
USA
PHONE : 630 - 741 - 0300
FAX : 630 - 741 - 0301

EUROPE / TRADING

MARANTZ EUROPE B.V.
P. O. BOX 8744, BUILDING SILVERPOINT
BEEMDSTRAAT 11, 5653 MA EINDHOVEN
THE NETHERLANDS
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FAX : +31 - 40 - 2507860

CANADA

LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
CANADA
PHONE : 905 - 831 - 6333
FAX : 905 - 831 - 6936

***PROFESSIONAL* AMERICAS**

SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
2640 WHITE OAK CIRCLE, SUITE A
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

***PROFESSIONAL* AUSTRALIA**

TECHNICAL AUDIO GROUP PTY, LTD
558 DARLING STREET,
BALMAIN, NSW 2041,
AUSTRALIA
PHONE : 61 - 2 - 9810 - 5300
FAX : 61 - 2 - 9810 - 5355

***PROFESSIONAL* HONG KONG**

Jolly ProAudio Broadcast Engineering Ltd.
UNIT 2, 10F, WAH HUNG CENTRE,
41 HUNG TO ROAD, KWUN TONG, KLN.,
HONG KONG
PHONE : 852 - 21913660
FAX : 852 - 21913990

AUSTRALIA

QualiFi Pty Ltd,
24 LIONEL ROAD,
MT. WAVERLEY VIC 3149
AUSTRALIA
PHONE : +61 - (0)3 - 9543 - 1522
FAX : +61 - (0)3 - 9543 - 3677

THAILAND

MRZ STANDARD CO., LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
PHONE : +66 - 2 - 222 9181
FAX : +66 - 2 - 224 6795

SINGAPORE

WO KEE HONG DISTRIBUTION PTE LTD
130 JOO SENG ROAD
#03-02 OLIVINE BUILDING
SINGAPORE 368357
PHONE : +65 6858 5535 / +65 6381 8621
FAX : +65 6858 6078

NEW ZEALAND

WILDASH AUDIO SYSTEMS NZ
14 MALVERN ROAD MT ALBERT
AUCKLAND NEW ZEALAND
PHONE : +64 - 9 - 8451958
FAX : +64 - 9 - 8463554

TAIWAN

PAI- YUING CO., LTD.
6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 - 2 - 25221304
FAX : +886 - 2 - 25630415

MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.
SUITE 8.1, LEVEL 8, MENARA GENESIS,
NO. 33, JALAN SULTAN ISMAIL,
50250 KUALA LUMPUR, MALAYSIA
PHONE : +60 3 - 21457677
FAX : +60 3 - 21458180

JAPAN *Technical*

MARANTZ JAPAN, INC.
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SAGAMIHARA - SHI, KANAGAWA
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営業本部 〒150-0022
東京都渋谷区恵比寿南1-11-9

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

General

System	DVD-Video, DVD-Audio, DVD-R/RW, Video-CD, SACD, CD and MP3 files
Power requirements	
A Version	AC 240 V, 50 Hz
C Version	AC 220 V, 60 Hz
F Version	AC 100 V, 50 / 60 Hz
K Version	AC 220 V, 50 Hz
L Version	AC 110 V, 60 Hz
N Version	AC 230 V, 50 Hz
S Version	AC 230 V, 50 / 60 Hz
U Version	AC 120 V, 60 Hz
Power consumption	
F Version	18 W
L Version	19 W
Other Version	20 W
Weight	
N Version	6.2 kg (13 lb 44 oz)
Other Version	6.1 kg (13 lb 44 oz)
Dimensions	440 (W) x 307 (D) x 89 (H) mm (17 8/25 (W) x 12 2/25 (D) x 3 1/2 (H) in.) (Not including protruding cables, etc.)
Operating temperature	+5 °C to +35 °C (+41 °F to +96 °F)
Operating humidity	5% to 85% (no condensation)

S-Video output

Y (luminance) - Output level	1 Vp-p (75 Ω)
C (color) - Output level : NTSC	286 mVp-p (75 Ω)
: PAL	300 mVp-p (75 Ω)
Jacks	S-VIDEO jack

Video output (2 individual outputs)

Output level	1 Vp-p (75 Ω)
Jacks	RCA jack

Component video output (Y, C_B/P_B, C_R/P_B)

Output level	Y : 1.0 Vp-p (75 Ω) C_B/P_B, C_R/P_B : 0.7 Vp-p (75 Ω)
Jacks	RCA jack

R / G / B output

Output level	R / G / B : 0.7 Vp-p (75 Ω)
Jacks (N Version)	21 pin SCART connector

D1/D2 video output (except for N, U Version)

Output level	Y : 1.0 Vp-p (75 Ω) C_B/P_B, C_R/P_B : 0.7 Vp-p (75 Ω)
Jacks	D terminal

Audio output (2 individual outputs)

Output level	
During audio output	200 mVrms (1 kHz, –20 dB)
Number of channels	2
Jacks	RCA jack

Audio output (multi-channel / L, R, C, SW, LS, RS)

Output level	
During audio output	200 mVrms (1 kHz, –20 dB)
Number of channels	6
Jacks	RCA jack

Digital audio characteristics

Frequency response	4 Hz to 44 kHz (DVD fs: 96 kHz) 4 Hz to 88 kHz (DVD-Audio fs: 192 kHz)
S/N ratio	more than 118 dB
Dynamic range	more than 108 dB
Total harmonic distortion	0.001%
Wow and flutter	Limit of measurement(–0.001% W. PEAK) or lower

Digital output

Optical digital output	Optical digital jack
Coaxial digital output	RCA jack

Accessories

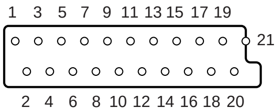
Audio/Video cord	1
System Control cord	1
Power Cord	1
Remote control unit	1
AA (R6P) dry cell batteries	2
Operating Instructions	1

Note

The specifications and design of this product are subject to change without notice, due to improvement.

2. CONNECTION FACILITIES

2.1 Video performance (/N only)



2. 1. 1 SCART

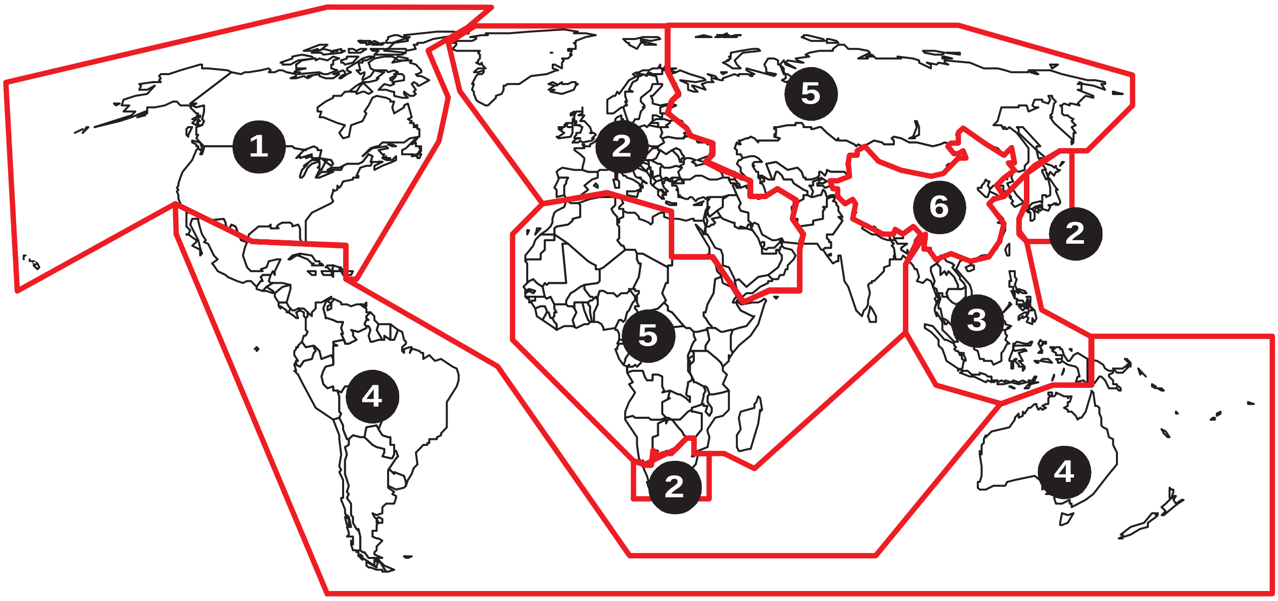
Pin No.	TV (OUT)	Pin No.	AUX (IN)
Pin 1	Audio R out : 2Vrms	Pin 1	Audio R out : 2Vrms
Pin 2	Audio R in : 2Vrms	Pin 2	Audio R in : 2Vrms
Pin 3	Audio L out : 2Vrms	Pin 3	Audio L out : 2Vrms
Pin 4	GND	Pin 4	GND
Pin 5	GND	Pin 5	GND
Pin 6	Audio L in : 2Vrms	Pin 6	Audio L in : 2Vrms
Pin 7	Blue out/C in Blue : 0.7Vpp ±0.1V into 75 Ohm *1 C : 300mVpp ±30 into 75 Ohm *2	Pin 7	Blue in/C out Blue : 0.7Vpp ±0.1V into 75 Ohm *1 C : 300mVpp ±30 into 75 Ohm *2
Pin 8	function switching out <2V : TV >5/<8 : asp.ratio 16 : 9 DVD/AUX >9.5/<12 : asp.ratio 4 : 3 DVD/AUX	Pin 8	function switching in<2V : DVD >5/<8 : asp.ratio 16 : 9 AUX >9.5/<12 : asp.ratio 4 : 3 AUX
Pin 9	GND	Pin 9	GND
Pin 10	not connected	Pin 10	not connected
Pin 11	Green out:0.7Vpp ±0.1V into 75 Ohm *1	Pin 11	Green in:0.7Vpp ±0.1V into 75 Ohm
Pin 12	not connected	Pin 12	not connected
Pin 13	GND	Pin 13	GND
Pin 14	GND	Pin 14	GND
Pin 15	Red/C out Red : 0.7Vpp ±0.1V into 75 Ohm *1 C : 300mVpp ±30 into 75 Ohm *2	Pin 15	Red/C in Red : 0.7Vpp ±0.1V into 75 Ohm *1 C : 300mVpp ±30 into 75 Ohm *2
Pin 16	fast switching out <0.4V into 75 Ohm=CVBS/S-Video 1</<3 into 75 Ohm=RGB	Pin 16	fast switching in <0.4V into 75 Ohm=CVBS/S-Video 1</<3 into 75 Ohm=RGB
Pin 17	GND	Pin 17	GND
Pin 18	GND	Pin 18	GND
Pin 19	CVBS/Y out : 1Vpp ±0.1V *1	Pin 19	CVBS/Y out : 1Vpp ±0.1V *1
Pin 20	CVBS/Y in : 1Vpp ±0.1V *1	Pin 20	CVBS/Y in : 1Vpp ±0.1V *1
Pin 21	GND	Pin 21	GND

*1 : 100% White   *2 : Burst Level   *3 : color bar(chroma level : 75%)

What are "regional codes"?

Motion picture studios want to control the home release of movies in different countries because theater releases arenit simultaneous (a movie may come out on DVD in the US when itis just hitting screens in Europe). Therefore they have required that the DVD standard include codes which can be used to lock out the playback of certain discs in certain geographical regions. Players sold in each region will have that regionis code built into the player. The player will refuse to play these "region coded" discs which are not allowed in the region. However, regional codes are entirely optional. Discs without codes will play on any player in any country. Some studios have already announced that only their new releases will have regional codes. There are six regions:

1. United States and Canada
2. Europe and Japan
3. Far East (except Japan & China)
4. South America and Oceania
5. Africa and the Middle East
6. China (except Hong Kong)



Map of DVD Regions

3. INFORMATIONS

REGION CODE

VERSION	REGION CODE	COUNTRY
/UXX	1	USA/CANADA
/FXX	2	JAPAN
/NXX	2	EUROPE
/CXX	3	KOREA
/LXX	3	TAIWAN
/SXX	3	SINGAPORE/HONGKONG
/AXX	4	AUSTRALIA
/KXX	6	CHINA

DVD INFORMATION

Below is a glossary of the new terms related to DVD.

Title:

A disc may have more than one story/movie on it, so each story/movie is called a "title".

For example, if there are 2 movies on the disc, they are separated into Title 1 and Title 2.

Chapter:

A title may also be separated into chapters.

For example, a movie (title) may be separated into 3 scenes (chapters).

Title 1			Title 2		
Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2	Chapter 3

Subtitles:

DVDs are recorded with up to 32 different subtitle languages. If a disc has more than one subtitle language, you can select the subtitle language that you want to read.

Soundtrack language:

DVDs are recorded with up to 8 different soundtrack languages. If a disc has more than one language, you can select the soundtrack language that you want to listen to.

Multi-angles:

On some DVDs, scenes have been filmed from different angles (up to a maximum of 9). On these discs, you can select the angle that you want to watch. Please refer to the DVD's manual to see which scenes have multi-angles.

Resetting the Player to System Settings:

To reset the player, press and hold [**STOP**] button on the front panel when pressing **Power switch** to turn the power on.

All program memory, saved settings from functions such as Last Memory and Condition Memory are cleard, and all Setup screen menus are returned to factory settings.

THE DISCS THAT THE DV8300 CAN HANDLE

The following discs can be played back with a DV-12S1

Types of playable discs and their marks	Diameter/ Playable sides		Playback time
DVD-Audio *DVD-Video*	DVD-Audio *DVD-Video*		Digital audio Digital video (MPEG 2)
	12 cm (5in.)/ single-sided	1 layer 2 layer	133 min. 242 min.
	12 cm (5in.)/ double-sided	1 layer 2 layer	266 min. 484 min.
	DVD-Audio *DVD-Video*		Digital audio Digital video (MPEG 2)
	8 cm (3 in.)/ single-sided	1 layer 2 layer	41 min. 75 min.
	8 cm (3 in.)/ double-sided	1 layer 2 layer	82 min. 150 min.
DVD-RW (JAPAN & USA model only) *	DVD-RW		Digital audio Digital video (MPEG 2)
	12 cm (5in.)/ single-sided		Max. 360 min.
	8 cm (3 in.)/ single-sided		Max. 100 min.
VIDEO CD	VIDEO CD 12 cm (5 in.)/ single-sided		Digital audio Digital video (MPEG 1) Max. 74 minutes
	VIDEO CD single 8 cm (3 in.)/ single-sided		Digital audio Digital video (MPEG 1) Max. 20 minutes
CD ** **	CD 12 cm (5 in.)/ single-sided		Digital audio Max. 74 minutes
	CD single 8 cm (3 in.)/ single-sided		Digital audio Max. 20 minutes
F-Disc	(F only) （株）フジカラーサービスの フジテレシネサービスで作成された ディスクです。		

Note: The regional code of the discs must meet to the regional code of the DV8300

The disc format logos shown above are found on disc labels or on disc jackets.

- To prevent malfunction, do not use an 8 cm (3 in.) adaptor (for CDs).
- Discs other than the ones indicated above cannot be played on this unit.
- DVDs that have incompatible region numbers, DVDROM, DVD-RAM, and CD-ROM cannot be played on this unit. The region number of the player can be found on the rear panel.

*** Playing DVD-RW discs (JAPAN & USA model only)**

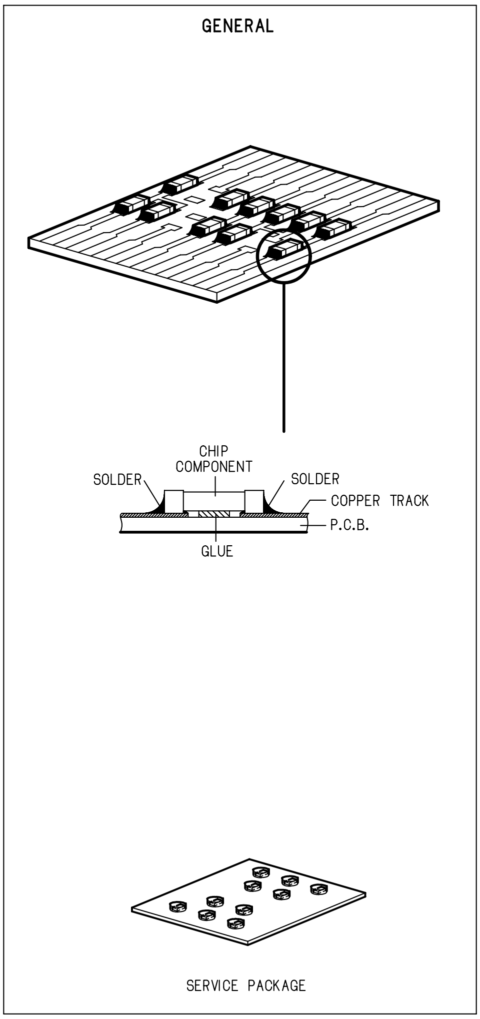
- You may not be able to play non-finalized DVD-RW discs.
- Copyrighted content originally provided with the permission of one generation and recorded on
- DVD discs cannot be played on this player.
- When playing a DVD-RW disc that was edited on a DVD recorder, you may see scenes from just before the edited point. This is not a malfunction.
- Up to 20 characters of a title name can be displayed.

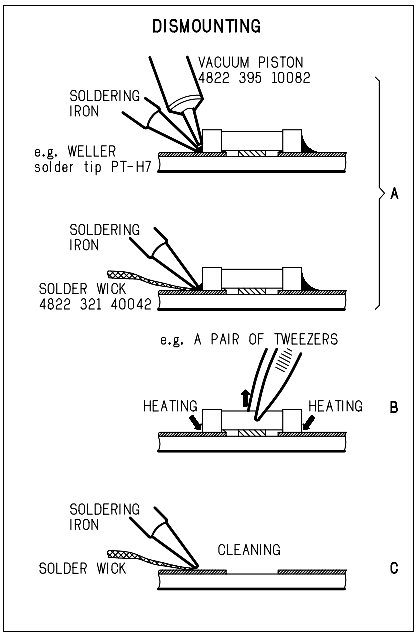
**** Playing recordable CDs**

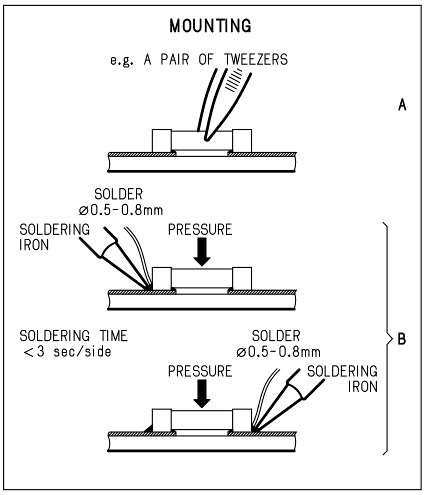
- Note that this unit cannot record onto recordable discs.
- This unit can play music-use CD-R and CD-RW discs.
  However, depending on the condition of the CD-Recorder and the disc, you may find that not all discs will play successfully. (For example, if the disc is scratched or dirty, or if the player fs pickup lens is dirty.)

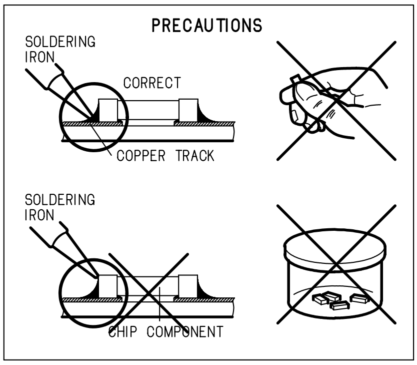
4. SERVICE HINTS AND TOOLS

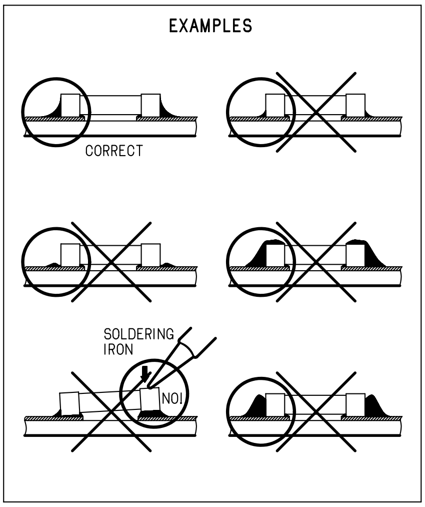
SERVICE HINTS


GENERAL
CHIP COMPONENT
SOLDER
SOLDER
COPPER TRACK
P.C.B.
GLUE
SERVICE PACKAGE


DISMOUNTING
VACUUM PISTON
4822 395 10082
SOLDERING IRON
e.g. WELLER
solder tip PT-H7
A
SOLDERING IRON
SOLDER WICK
4822 321 40042
e.g. A PAIR OF TWEEZERS
HEATING
HEATING
B
SOLDERING IRON
CLEANING
SOLDER WICK
C


MOUNTING
e.g. A PAIR OF TWEEZERS
A
SOLDER
⌀0.5-0.8mm
SOLDERING IRON
PRESSURE
SOLDERING TIME
<3 sec/side
SOLDER
⌀0.5-0.8mm
B
PRESSURE
SOLDERING IRON


PRECAUTIONS
SOLDERING IRON
CORRECT
COPPER TRACK
SOLDERING IRON
CHIP COMPONENT


EXAMPLES
CORRECT
SOLDERING IRON
NO!

SERVICE TOOLS

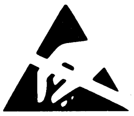
Audio signals disc	4822 397 30184
Disc without errors (SBC444)+	
Disc with DO errors, black spots and fingerprints (SBC444A)	4822 397 30245
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
DVD test disc (PAL)	4822 397 10131
DVD test disc (NTSC) ALMEDIO	TDV-540

5. WARNING AND LASER SAFETY INSTRUCTIONS

GB **WARNING**

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

ESD



NL **WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

F **ATTENTION**

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise a leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller a ce que les composants ainsi que les outils que l'on utilise soient également a ce potentiel.

D **WARNUNG**

Alle IC und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).
Unsorgfältige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern.
Sorgen sie dafür, das Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.
Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

I **AVVERTIMENTO**

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevita potrebbe essere fortemente ridatta in caso di non osservazione della piu grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt terug gebracht en dat onderdelen, identiek aan de gespecifieerde worden toegepast.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten.
Der Originalzustand des Gerats darf nicht verandert werden.
Fur Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambiago idetici a quelli specificati.

F

Les normes de sécurité exigent que l'appareil soit remis a l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

SHOCK, FIRE HAZARD SERVICE TEST:

CAUTION: After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom,
Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before return to user/customer.
Ref.UL Standard NO.1492.

NOTE ON SAFETY:

Symbol ⚠ : Fire or electrical shock hazard. Only original parts should be used to replace any part with symbol ⚠ Any other component substitution(other than original type), may increase risk or fire or electrical shock hazard.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agrées, seuls habilités à réparer votre appareil en panne."

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

LASER DEVICE UNIT

Type:	SemiconductorlaserGaAlAs
Wave length:	650 nm (DVD) 780 nm (VCD/CD)
Output Power:	7 mW (DVD) 10 mW (VCD/CD)
Beam divergence:	60 degree

CLASS 1
LASER PRODUCT

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AVOID DIRECT EXPOSURE TO BEAM

WARNING

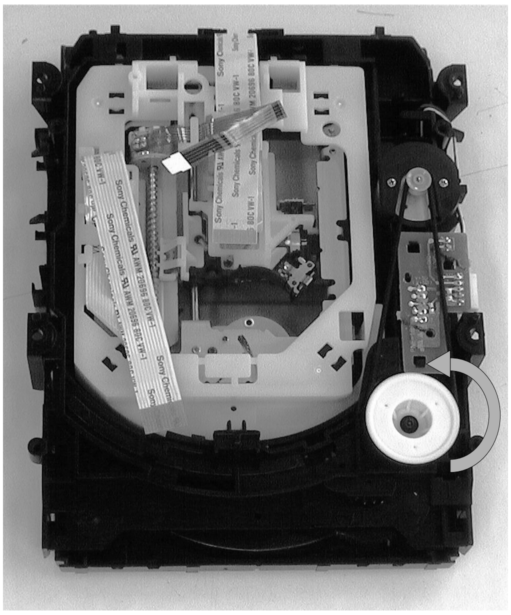
The use of optical instruments with this product will increase eye hazard.
Repair handling should take place as much as possible with a disc loaded inside the player

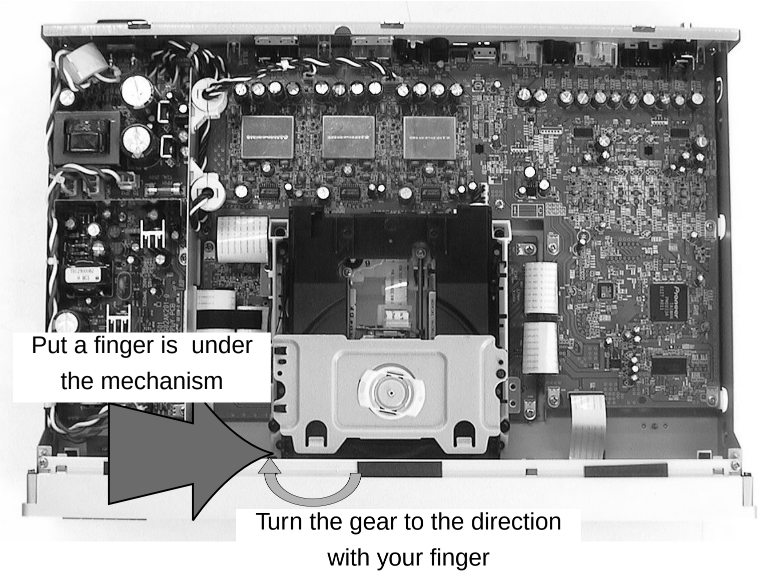
WARNING LOCATION: INSIDE ON LASER COVERSHIELD

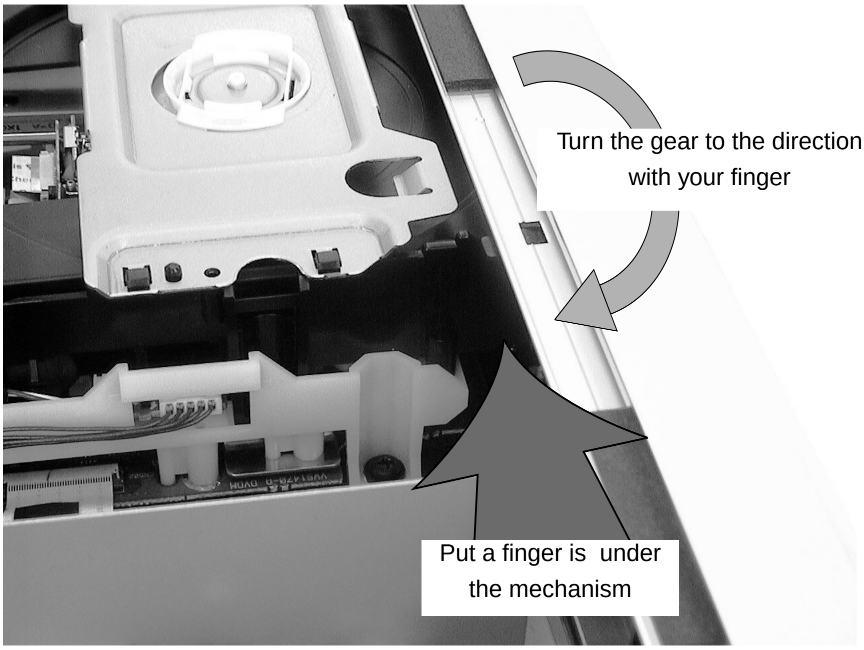
CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETSEN
DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

6. TAKING THE DISC OUT OF EMERGENCY

1. Remove 6 screws on the top cover and remove the top cover.
2. Put a finger is under the mechanism and Turn the gear to the direction with your finger.
3. The disc tray will opened.

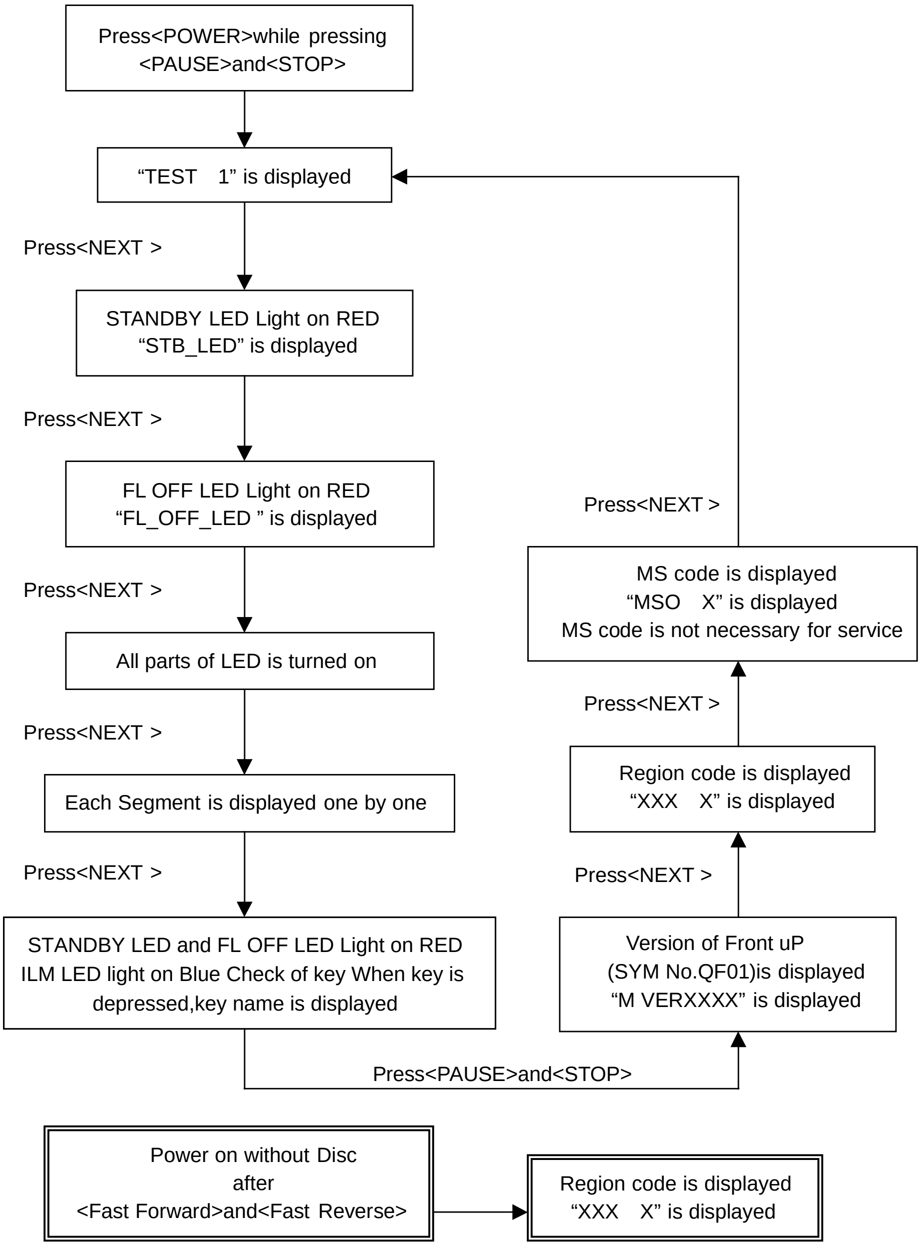



Put a finger is under the mechanism
Turn the gear to the direction with your finger


Turn the gear to the direction with your finger
Put a finger is under the mechanism

7. SERVICE MODE AND TROUBLE SHOOTING

SERVICE MODE

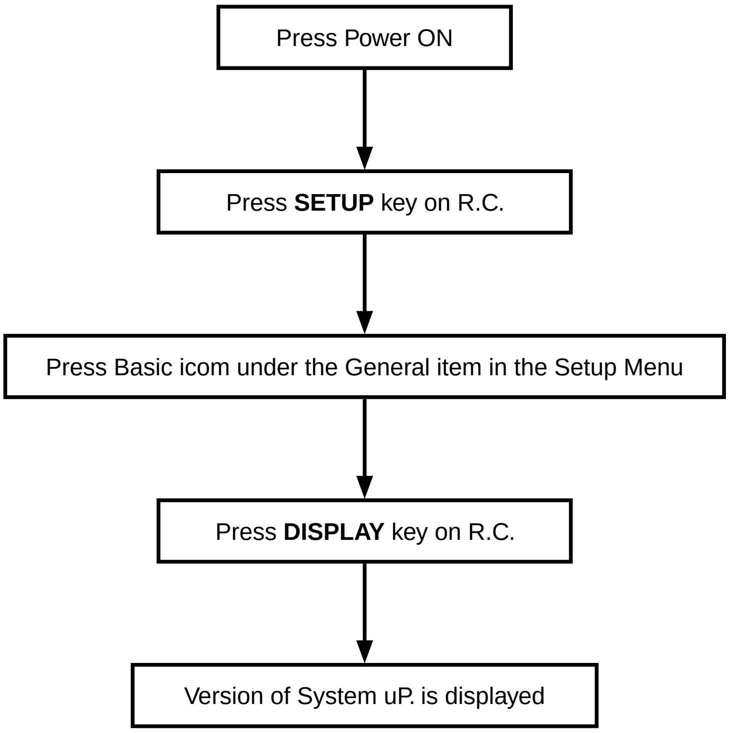

Press<POWER>while pressing <PAUSE>and<STOP>
“TEST 1” is displayed
Press<NEXT >
STANDBY LED Light on RED “STB_LED” is displayed
Press<NEXT >
FL OFF LED Light on RED “FL_OFF_LED ” is displayed
Press<NEXT >
All parts of LED is turned on
Press<NEXT >
Each Segment is displayed one by one
Press<NEXT >
STANDBY LED and FL OFF LED Light on RED ILM LED light on Blue Check of key When key is depressed,key name is displayed
Press<PAUSE>and<STOP>
Version of Front uP (SYM No.QF01)is displayed “M VERXXXX” is displayed
Press<NEXT >
Region code is displayed “XXX X” is displayed
Press<NEXT >
MS code is displayed “MSO X” is displayed MS code is not necessary for service
Press<NEXT >
Power on without Disc after <Fast Forward>and<Fast Reverse>
Region code is displayed “XXX X” is displayed

ERROR CODE

Error codes are displayed on the FL display.

FL Display	Possible causes	Operation of the unit
AV1 VER	AV-1 chip is not a match with program of system controller.	The sound may not out with the specific audio.
CPU AERR	CPU address error. (Hardware is unusual.)	No operation.
DMA AERR	DMA address error. (Hardware is unusual.)	No operation.
FLASH ID	Difference in versions of the internal ROM of the system controller and of the flash ROM, or bus line failure or reverse installation.	No operation.
FLASH WRP	Write protect error of the flash ROM.	No operation.
FLASH SIG	Difference in part number of the flash ROM. (When the ROM which couldn't be used was used.)	No operation.
FLASH SUM	Check sum error of the flash ROM (It exceeds the regular size.) or reverse installation. (Hardware is unusual.)	No operation.
FLASH SIZE	Size error of the flash ROM. (Use 4 or 8 M-bit.)	No operation.
ILLGAL	The system controller fetched a code other than an operation code. (Hardware is unusual.)	No operation.
RESERVE	Undefined interrupt. (Hardware is unusual.)	No operation.
SLOT	Inappropriate slot command issued. (Hardware is unusual.)	No operation.

- To Confirm version of System uP. on DVDM.

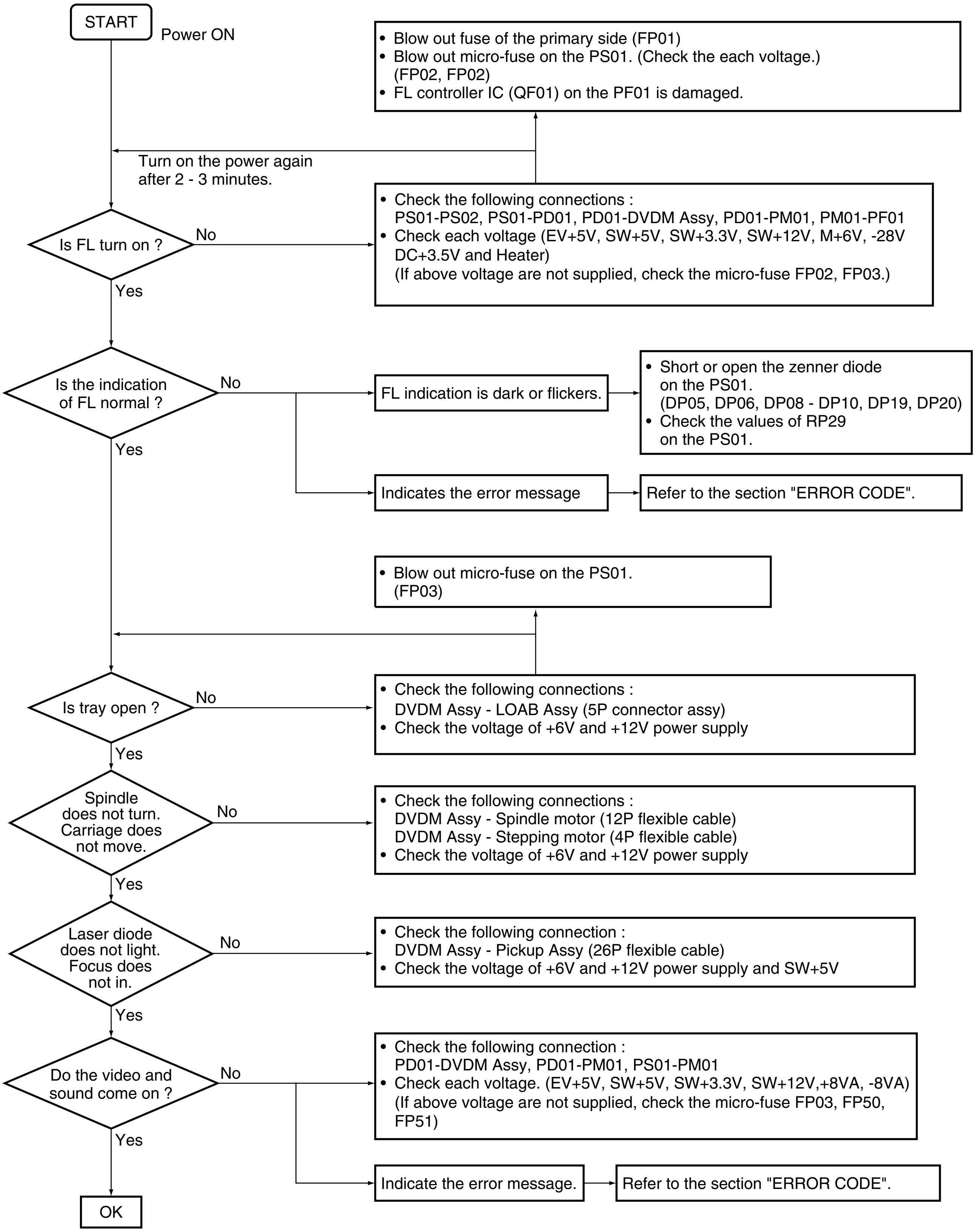

Press Power ON
Press **SETUP** key on R.C.
Press Basic icom under the General item in the Setup Menu
Press **DISPLAY** key on R.C.
Version of System uP. is displayed

"**Region : X / Ver : XXXX(XX) / AV1 : x.x / x.x**" is displayed

The version displayed here is a version written in the system microprocessor of DVDM (002A).
Change of this version by external operation cannot be performed.

TROUBLE SHOOTING

- No Power ON
- FL is not turned ON
- FL indication is unusual


START
Power ON
Turn on the power again after 2 - 3 minutes.
Is FL turn on ?
No
Yes
Is the indication of FL normal ?
No
Yes
FL indication is dark or flickers.
Indicates the error message
Is tray open ?
No
Yes
Spindle does not turn. Carriage does not move.
No
Yes
Laser diode does not light. Focus does not in.
No
Yes
Do the video and sound come on ?
No
Yes
Indicate the error message.
OK

- Blow out fuse of the primary side (FP01)
- Blow out micro-fuse on the PS01. (Check the each voltage.) (FP02, FP02)
- FL controller IC (QF01) on the PF01 is damaged.

- Check the following connections : PS01-PS02, PS01-PD01, PD01-DVDM Assy, PD01-PM01, PM01-PF01
- Check each voltage (EV+5V, SW+5V, SW+3.3V, SW+12V, M+6V, -28V DC+3.5V and Heater) (If above voltage are not supplied, check the micro-fuse FP02, FP03.)

- Short or open the zenner diode on the PS01. (DP05, DP06, DP08 - DP10, DP19, DP20)
- Check the values of RP29 on the PS01.

Refer to the section "ERROR CODE".

- Blow out micro-fuse on the PS01. (FP03)

- Check the following connections : DVDM Assy - LOAB Assy (5P connector assy)
- Check the voltage of +6V and +12V power supply

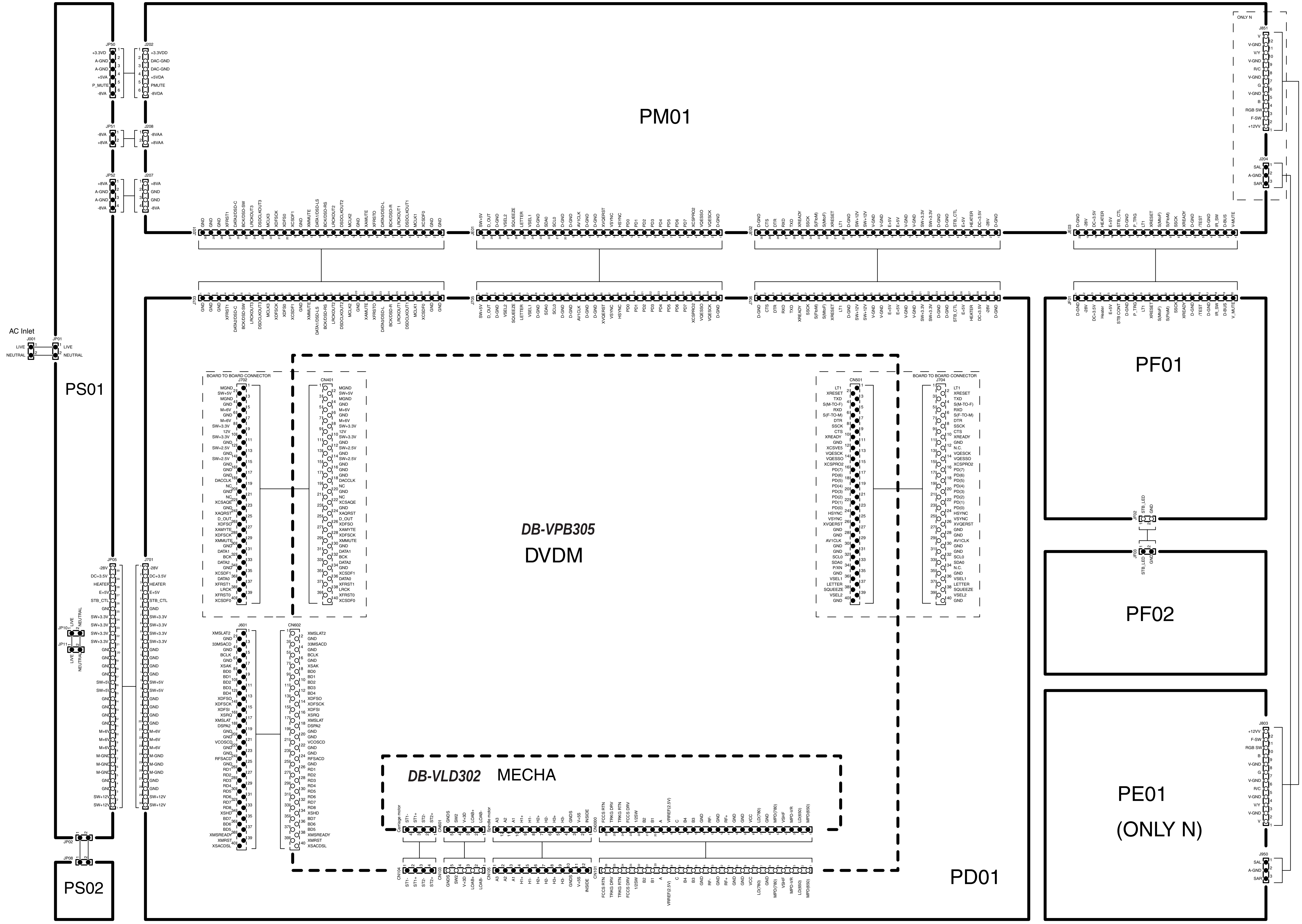
- Check the following connections : DVDM Assy - Spindle motor (12P flexible cable) DVDM Assy - Stepping motor (4P flexible cable)
- Check the voltage of +6V and +12V power supply

- Check the following connection : DVDM Assy - Pickup Assy (26P flexible cable)
- Check the voltage of +6V and +12V power supply and SW+5V

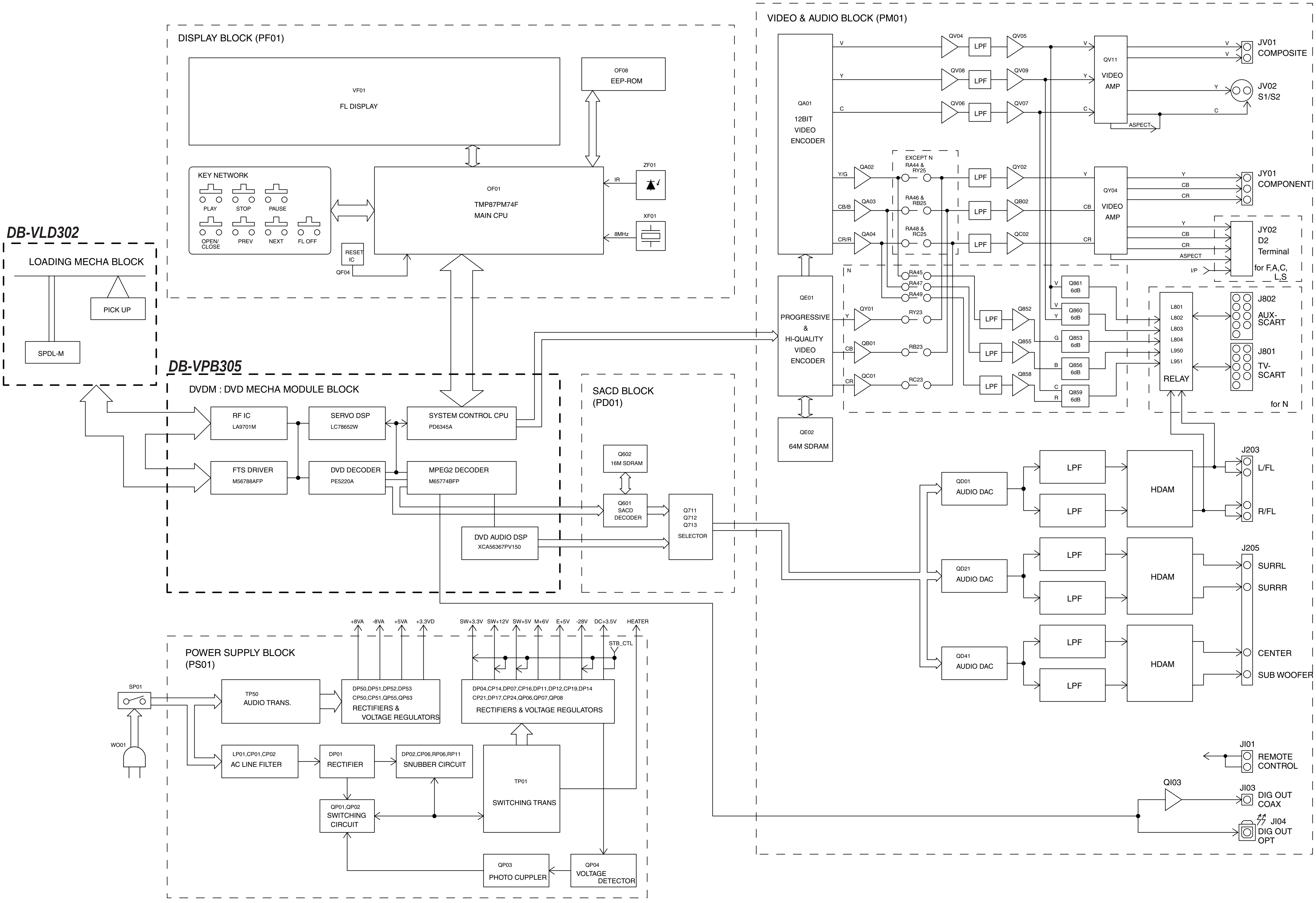
- Check the following connection : PD01-DVDM Assy, PD01-PM01, PS01-PM01
- Check each voltage. (EV+5V, SW+5V, SW+3.3V, SW+12V,+8VA, -8VA) (If above voltage are not supplied, check the micro-fuse FP03, FP50, FP51)

Refer to the section "ERROR CODE".

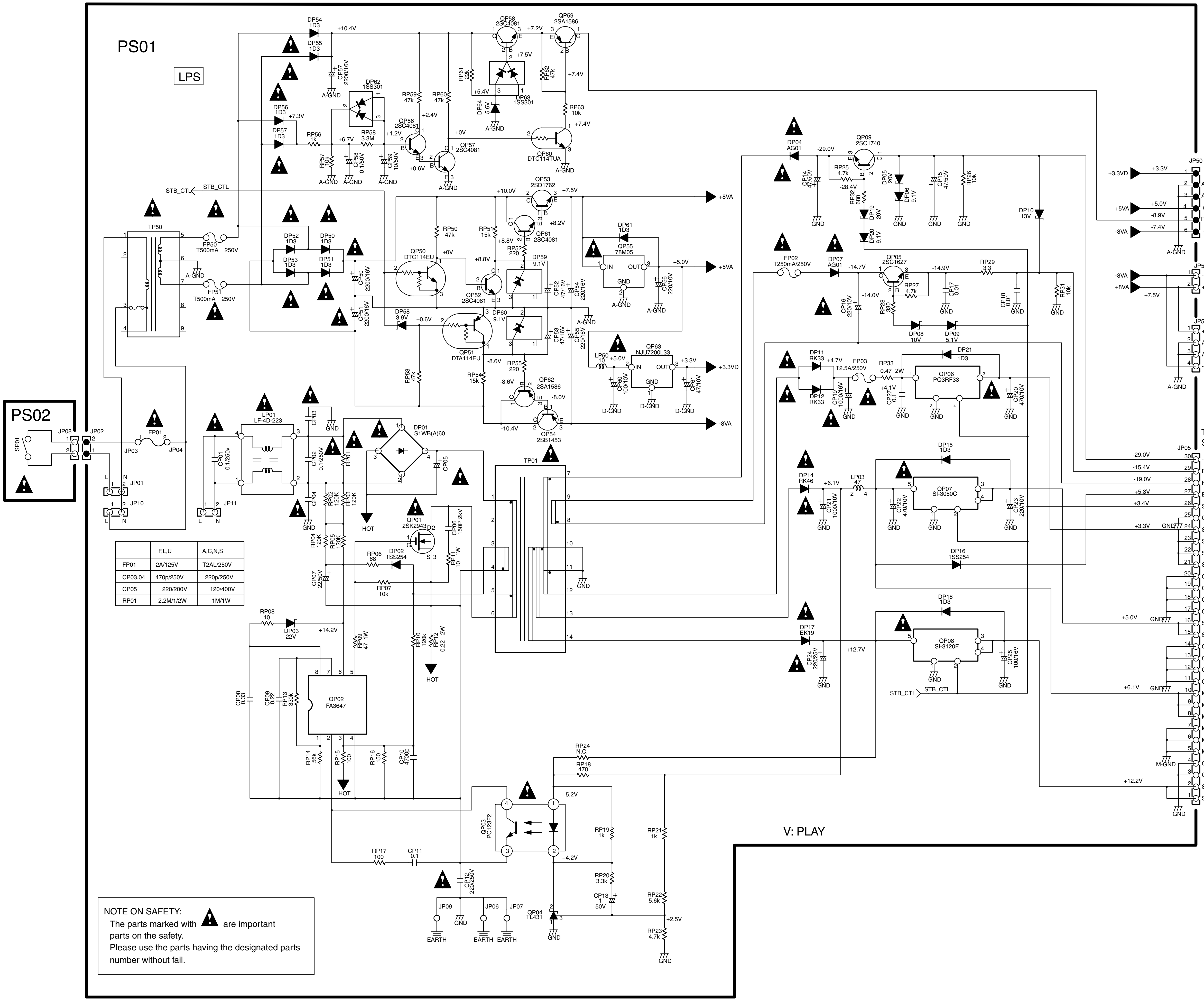
8. WIRING DIAGRAM


PM01
PS01
PS02
PF01
PF02
PE01
(ONLY N)
PD01
DB-VPB305
DVDM
DB-VLD302
MECHA
AC Inlet
J001
JP01
LIVE
NEUTRAL
JP50
J202
JP51
J208
JP52
J207
JP05
J701
JP10
JP11
JP02
JP08
J201
J703
JE01
J705
JE02
J706
JE03
JF01
JF02
JF03
STB_LED
GND
J851
J204
J803
J950
ONLY N
BOARD TO BOARD CONNECTOR
J702
CN401
CN501
J704
J601
CN602
CN104
CN103
CN105
CN101
+3.3VD
A-GND
+5VA
P_MUTE
-8VA
+8VA
+3.3VDD
DAC-GND
+5VDA
PMUTE
-8VDA
-8VAA
+8VAA
-28V
DC+3.5V
HEATER
E+5V
STB_CTL
SW+3.3V
SW+5V
M+6V
M-GND
SW+12V
V
V-GND
V/Y
R/C
G
B
RGB SW
F-SW
+12VV
SAL
SAR

9. BLOCK DIAGRAM


DISPLAY BLOCK (PF01)
VF01
FL DISPLAY
OF08
EEP-ROM
KEY NETWORK
PLAY
STOP
PAUSE
OPEN/CLOSE
PREV
NEXT
FL OFF
OF01
TMP87PM74F
MAIN CPU
IR
ZF01
XF01
8MHz
RESET IC
QF04
DB-VLD302
LOADING MECHA BLOCK
PICK UP
SPDL-M
DB-VPB305
DVDM : DVD MECHA MODULE BLOCK
RF IC
LA9701M
SERVO DSP
LC78652W
SYSTEM CONTROL CPU
PD6345A
FTS DRIVER
M56788AFP
DVD DECODER
PE5220A
MPEG2 DECODER
M65774BFP
DVD AUDIO DSP
XCA56367PV150
SACD BLOCK (PD01)
Q602
16M SDRAM
Q601
SACD DECODER
Q711
Q712
Q713
SELECTOR
VIDEO & AUDIO BLOCK (PM01)
QA01
12BIT VIDEO ENCODER
V
Y
C
Y/G
CB/B
CR/R
QV04
QV05
QV08
QV09
QV06
QV07
LPF
QV11
VIDEO AMP
ASPECT
JV01
COMPOSITE
JV02
S1/S2
QA02
QA03
QA04
EXCEPT N
RA44 & RY25
RA46 & RB25
RA48 & RC25
QY02
QB02
QC02
QY04
VIDEO AMP
CB
CR
JY01
COMPONENT
JY02
D2 Terminal
for F,A,C, L,S
I/P
N
RA45
RA47
RA49
RY23
RB23
RC23
QE01
PROGRESSIVE & HI-QUALITY VIDEO ENCODER
QY01
QB01
QC01
Q852
Q855
Q858
Q861 6dB
Q860 6dB
Q853 6dB
Q856 6dB
Q859 6dB
G
B
R
L801
L802
L803
L804
L950
L951
RELAY
J802
AUX-SCART
J801
TV-SCART
for N
QE02
64M SDRAM
QD01
AUDIO DAC
QD21
AUDIO DAC
QD41
AUDIO DAC
HDAM
J203
L/FL
R/FL
J205
SURRL
SURRR
CENTER
SUB WOOFER
JI01
REMOTE CONTROL
QI03
JI03
DIG OUT COAX
JI04
DIG OUT OPT
POWER SUPPLY BLOCK (PS01)
+8VA
-8VA
+5VA
+3.3VD
SW+3.3V
SW+12V
SW+5V
M+6V
E+5V
-28V
DC+3.5V
HEATER
STB_CTL
SP01
WO01
TP50
AUDIO TRANS.
DP50,DP51,DP52,DP53
CP50,CP51,QP55,QP63
RECTIFIERS & VOLTAGE REGULATORS
DP04,CP14,DP07,CP16,DP11,DP12,CP19,DP14
CP21,DP17,CP24,QP06,QP07,QP08
RECTIFIERS & VOLTAGE REGULATORS
LP01,CP01,CP02
AC LINE FILTER
DP01
RECTIFIER
DP02,CP06,RP06,RP11
SNUBBER CIRCUIT
TP01
SWITCHING TRANS
QP01,QP02
SWITCHING CIRCUIT
QP03
PHOTO CUPPLER
QP04
VOLTAGE DETECTOR

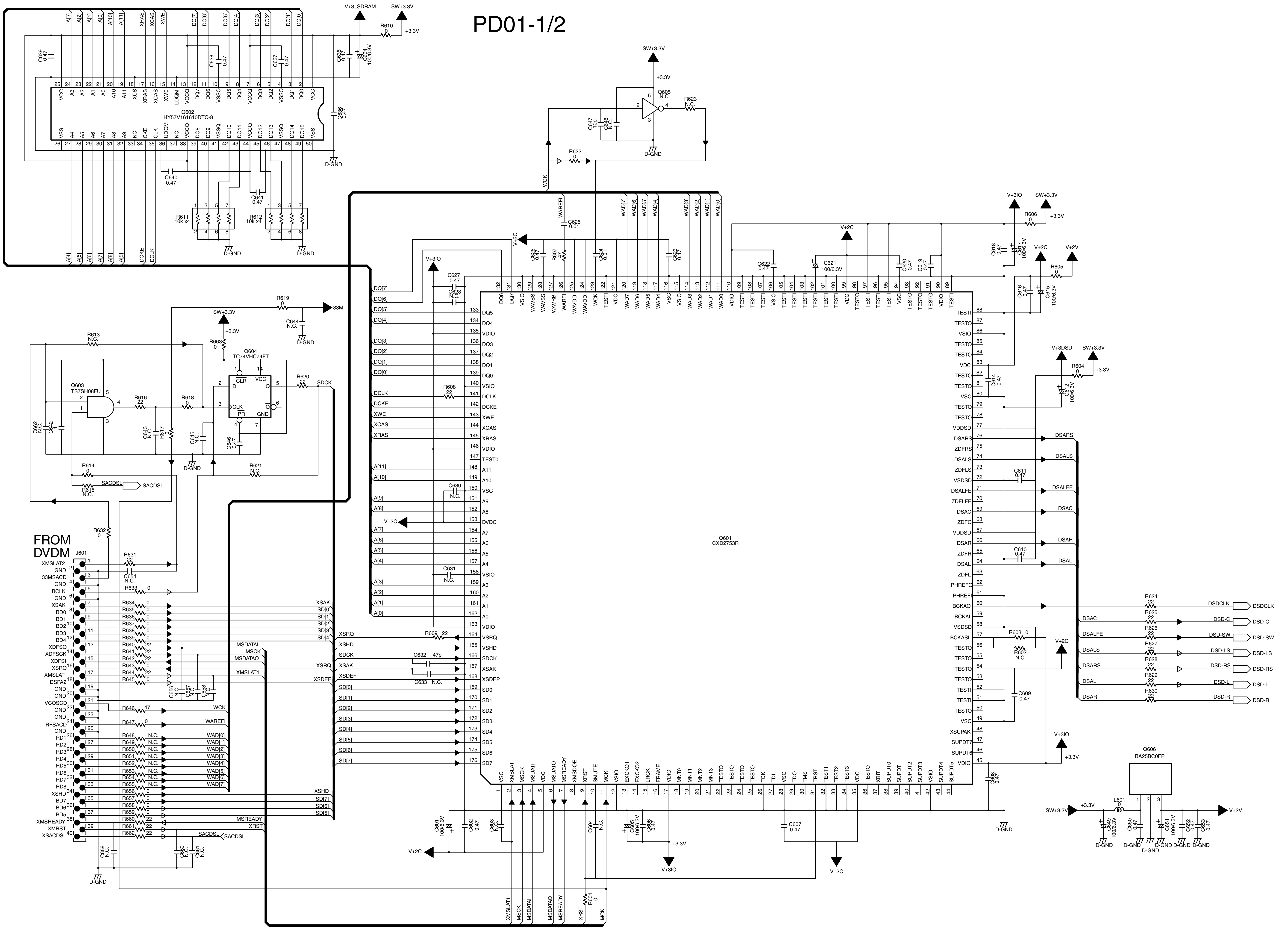
10. SCHEMATIC DIAGRAM


PS01
LPS
PS02
SP01
JP08
JP02
JP03
JP04
FP01
JP01
JP10
JP11
L
N
TP50
FP50
T500mA 250V
FP51
T500mA 250V
STB_CTL
DP52 1D3
DP53 1D3
DP50 1D3
DP51 1D3
DP54 1D3
DP55 1D3
DP56 1D3
DP57 1D3
+10.4V
+7.3V
+6.7V
CP57 2200/16V
DP62 1SS301
RP56 1k
RP57 10k
RP58 3.3M
CP58 0.1/50V
CP59 10/50V
A-GND
QP56 2SC4081
QP57 2SC4081
QP58 2SC4081
QP59 2SA1586
QP60 DTC114TUA
RP59 47k
RP60 47k
RP61 22k
RP62 47k
RP63 10k
DP63 1SS301
DP64 5.6V
+7.2V
+7.5V
+7.4V
+5.4V
+2.4V
+1.2V
+0V
+0.6V
QP53 2SD1762
QP61 2SC4081
QP50 DTC114EU
QP51 DTA114EU
QP52 2SC4081
QP62 2SA1586
QP54 2SB1453
QP55 78M05
QP63 NJU7200L33
RP50 47k
RP51 15k
RP52 220
RP53 47k
RP54 15k
RP55 220
DP58 3.9V
DP59 9.1V
DP60 9.1V
DP61 1D3
CP50 2200/16V
CP51 2200/16V
CP52 47/16V
CP53 47/16V
CP54 220/16V
CP55 220/16V
CP56 220/10V
CP60 100/10V
CP61 47/10V
LP50 10
+10.0V
+8.8V
+8.2V
-8.6V
-8.0V
-10.4V
+5.0V
+3.3V
+8VA
+5VA
+3.3VD
-8VA
D-GND
LP01 LF-4D-223
CP01 0.1/250V
CP02 0.1/250V
CP03
CP04
CP05
RP01
RP02 120K
RP03 120K
RP04 120K
RP05 120K
DP01 S1WB(A)60
QP01 2SK2943
DP02 1SS254
RP06 68
RP07 10k
RP11 10 1W
CP06 150P 2kV
CP07 22/50V
HOT
RP08 10
DP03 22V
+14.2V
RP09 47 1W
RP10 120k
RP12 0.22 2W
QP02 FA3647
CP08 0.33
CP09 0.22
RP13 330k
RP14 56k
RP15 100
RP16 150
CP10 4700p
TP01
RP17 100
CP11 0.1
CP12 220/250V
QP03 PC123F2
RP24 N.C.
RP18 470
RP19 1k
RP20 3.3k
CP13 1 50V
QP04 TL431
RP21 1k
RP22 5.6k
RP23 4.7k
+5.2V
+4.2V
+2.5V
JP09
JP06
JP07
EARTH
GND
DP04 AG01
QP09 2SC1740
RP25 4.7k
RP32 680
RP26 10k
DP05 20V
DP06 9.1V
DP19 20V
DP20 9.1V
DP10 13V
CP14 47/50V
CP15 47/50V
-29.0V
-28.4V
FP02 T250mA/250V
DP07 AG01
QP05 2SC1627
RP27 4.7k
RP28 330
RP29 3.3
RP31 10k
CP16 220/10V
CP17 0.01
CP18 0.01
DP08 10V
DP09 5.1V
-14.7V
-14.9V
-14.0V
DP11 RK33
DP12 RK33
FP03 T2.5A/250V
RP33 0.47 2W
DP21 1D3
QP06 PQ3RF33
CP19 1000/16V
CP27 0.1
CP20 470/10V
+4.7V
+4.1V
DP14 RK46
LP03 47
DP15 1D3
QP07 SI-3050C
CP21 1000/10V
CP22 470/10V
CP23 220/10V
+6.1V
DP16 1SS254
DP17 EK19
DP18 1D3
QP08 SI-3120F
CP24 220/25V
CP25 100/16V
+12.7V
V: PLAY
TO PM01 AUDIO
JP50
+3.3VD
A-GND
+5VA
P_MUTE
-8VA
-8.9V
-7.4V
JP51
+8VA
+7.5V
JP52
TO PD01 SACD
JP05
-28V
DC+3.5V
HEATER
E+5V
STB_CTL
SW+3.3V
SW+5V
M+6V
M-GND
SW+12V
-15.4V
-19.0V
+5.3V
+3.4V
+12.2V

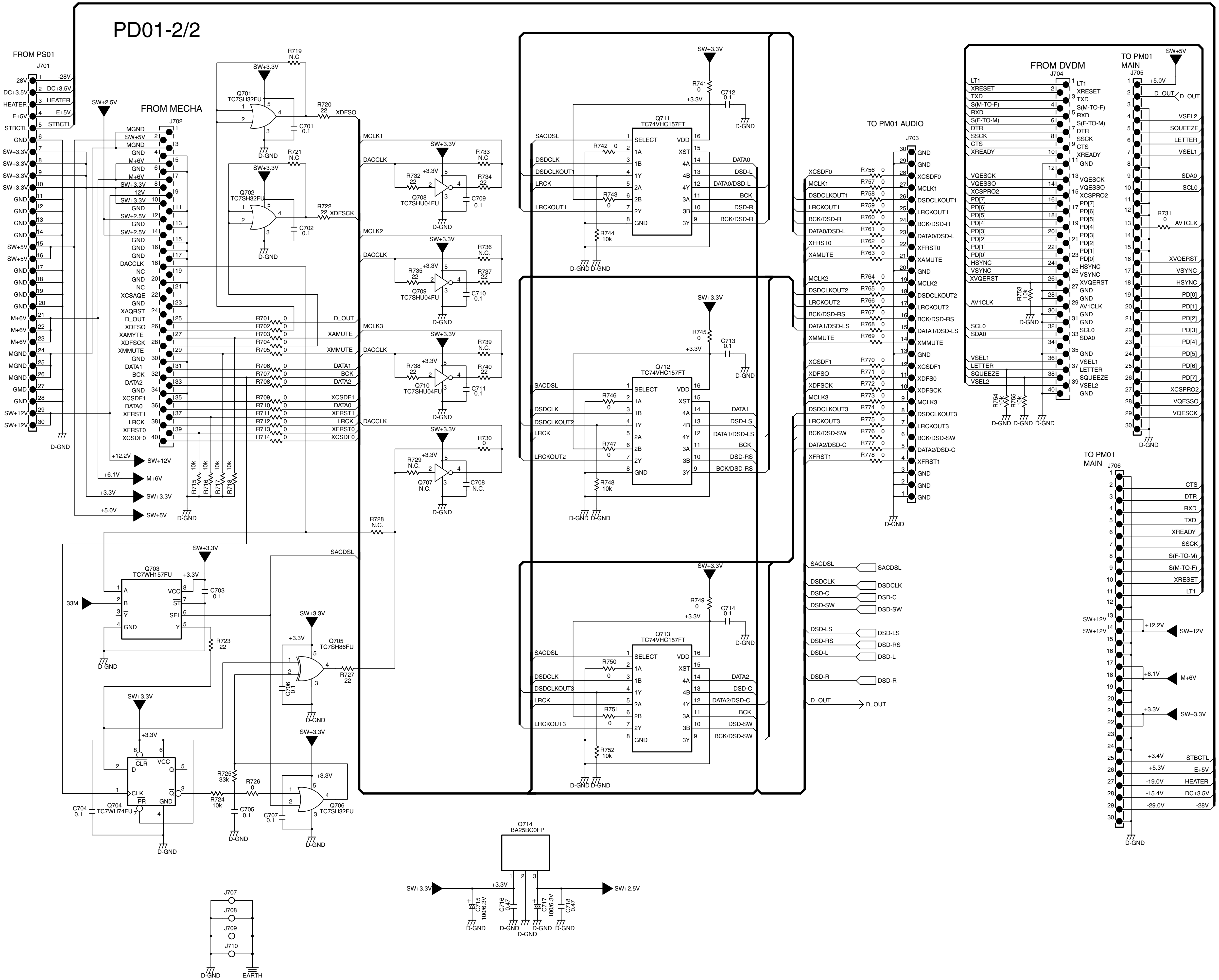
	F,L,U	A,C,N,S
FP01	2A/125V	T2AL/250V
CP03,04	470p/250V	220p/250V
CP05	220/200V	120/400V
RP01	2.2M/1/2W	1M/1W

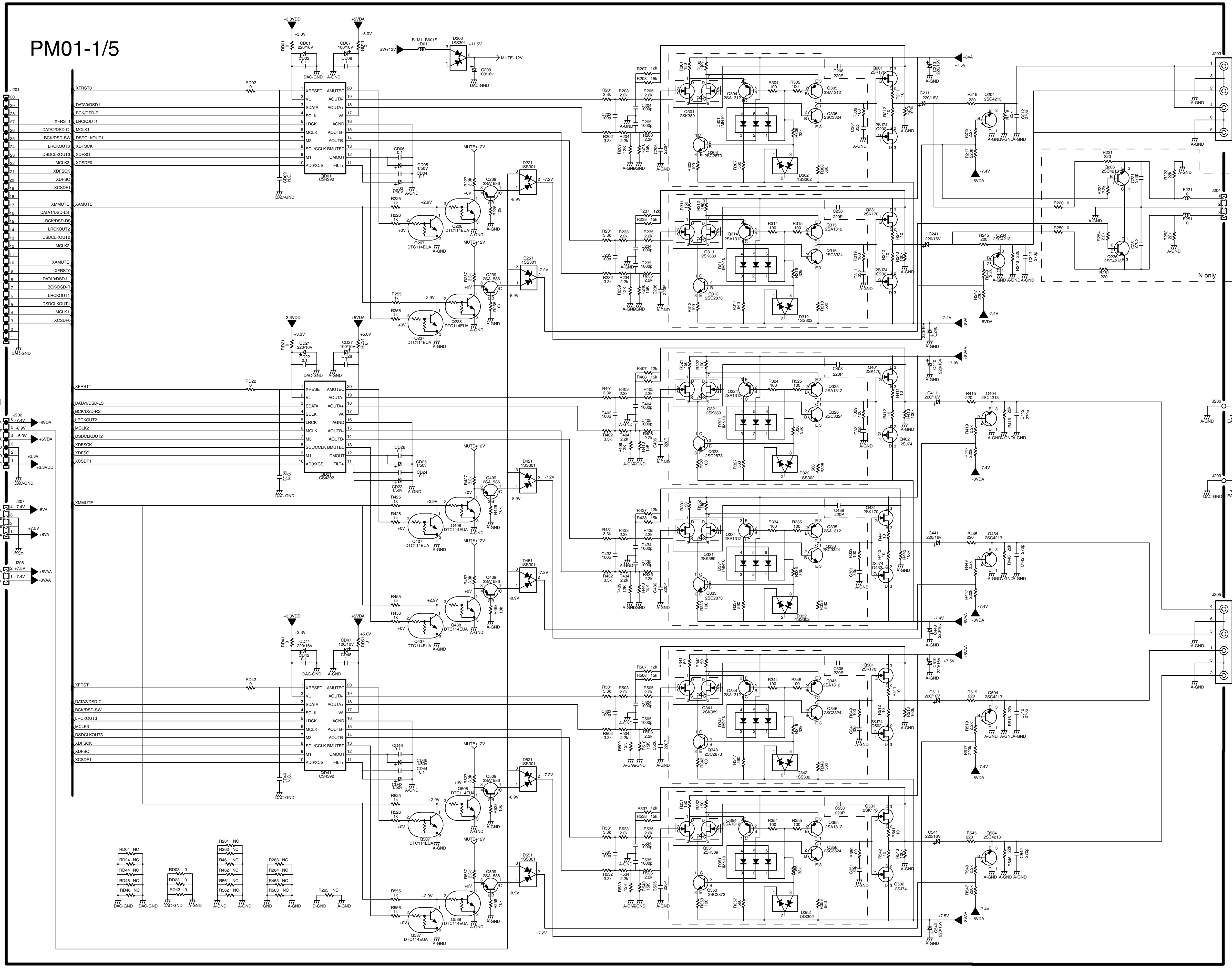
NOTE ON SAFETY:
The parts marked with ⚠ are important parts on the safety.
Please use the parts having the designated parts number without fail.

PD01-1/2

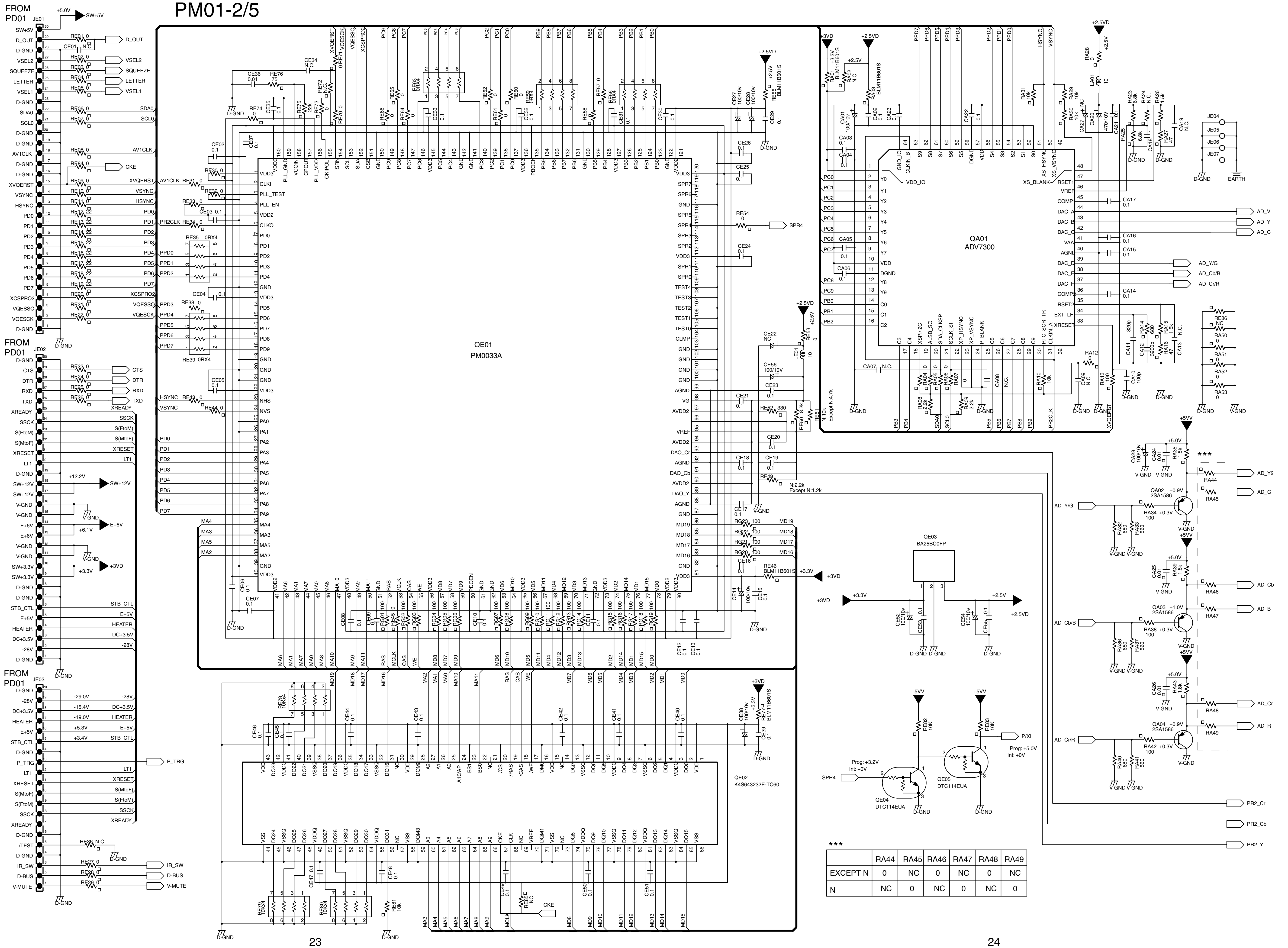


FROM
DVDM
J601
Q601
CXD2753R
Q602
HY57V161610DTC-8
Q603
TS7SH08FU
Q604
TC74VHC74FT
Q605
N.C.
Q606
BA25BC0FP
V+3_SDRAM
SW+3.3V
+3.3V
V+3IO
V+2C
V+2V
V+3DSD
D-GND
33M
SDCK
SACDSL
DSARS
DSALS
DSALFE
DSAC
DSAR
DSAL
DSDCLK
DSD-C
DSD-SW
DSD-LS
DSD-RS
DSD-L
DSD-R
XMSLAT2
33MSACD
BCLK
XSAK
XDFSO
XDFSCK
XDFSI
XSRQ
XMSLAT
DSPA2
VCOSCD
RFSACD
XSHD
XMSREADY
XMRST
XSACDSL
WCK
WAREFI
MSDATAI
MSCK
MSDATAO
MSREADY
XRST
MCK


PD01-2/2
FROM PS01
J701
FROM MECHA
J702
Q701
TC7SH32FU
Q702
TC7SH32FU
Q703
TC7WH157FU
Q704
TC7WH74FU
Q705
TC7SH86FU
Q706
TC7SH32FU
Q707
Q708
TC7SHU04FU
Q709
TC7SHU04FU
Q710
TC7SHU04FU
Q711
TC74VHC157FT
Q712
TC74VHC157FT
Q713
TC74VHC157FT
Q714
BA25BC0FP
TO PM01 AUDIO
J703
FROM DVDM
J704
TO PM01
MAIN
J705
TO PM01
MAIN
J706
J707
J708
J709
J710
SW+3.3V
SW+2.5V
SW+12V
M+6V
SW+5V
D-GND
EARTH
33M
XDFSO
XDFSCK
MCLK1
MCLK2
MCLK3
DACCLK
SACDSL
D_OUT
XAMUTE
XMMUTE
DATA1
BCK
DATA2
XCSDF1
DATA0
XFRST1
LRCK
XFRST0
XCSDF0
DSDCLK
DSD-C
DSD-SW
DSD-LS
DSD-RS
DSD-L
DSD-R
LT1
XRESET
TXD
RXD
DTR
SSCK
CTS
XREADY
VQESCK
VQESSO
XCSPRO2
HSYNC
VSYNC
XVQERST
AV1CLK
SCL0
SDA0
VSEL1
VSEL2
LETTER
SQUEEZE
STBCTL
HEATER
DC+3.5V
E+5V
-28V


PM01-1/5
FROM PD01
FROM PS01
J201
J202
J207
J208
IC201 CS4392
IC221 CS4392
IC241 CS4392
XRESET
AMUTEC
VL
AOUTA-
SDATA
AOUTA+
SCLK
VA
LRCK
AGND
MCLK
AOUTB-
M3
AOUTB+
SCL/CCLK
BMUTEC
M1
CMOUT
AD0/XCS
FILT+
XFRST0
XFRST1
XMUTE
XMMUTE
DATA0/DSD-L
DATA1/DSD-LS
DATA2/DSD-C
BCK/DSD-R
BCK/DSD-RS
BCK/DSD-SW
LRCKOUT1
LRCKOUT2
LRCKOUT3
MCLK1
MCLK2
MCLK3
DSDCLKOUT1
DSDCLKOUT2
DSDCLKOUT3
XDFSCK
XDFSO
XCSDF0
XCSDF1
BLM11B601S
SW+12V
MUTE+12V
+3.3VDD
+5VDA
+8VA
-8VA
+8VAA
-8VAA
-8VDA
DAC-GND
A-GND
2SK389
2SA1312
2SC3324
2SC2873
2SK170
2SJ74
2SC4213
2SA1586
DTC114EUA
1SS301
1SS302
IMN10
J203
J204
J205
J206
J209
EARTH
N only
L
R
FL
FR
SL
SR
C
SW

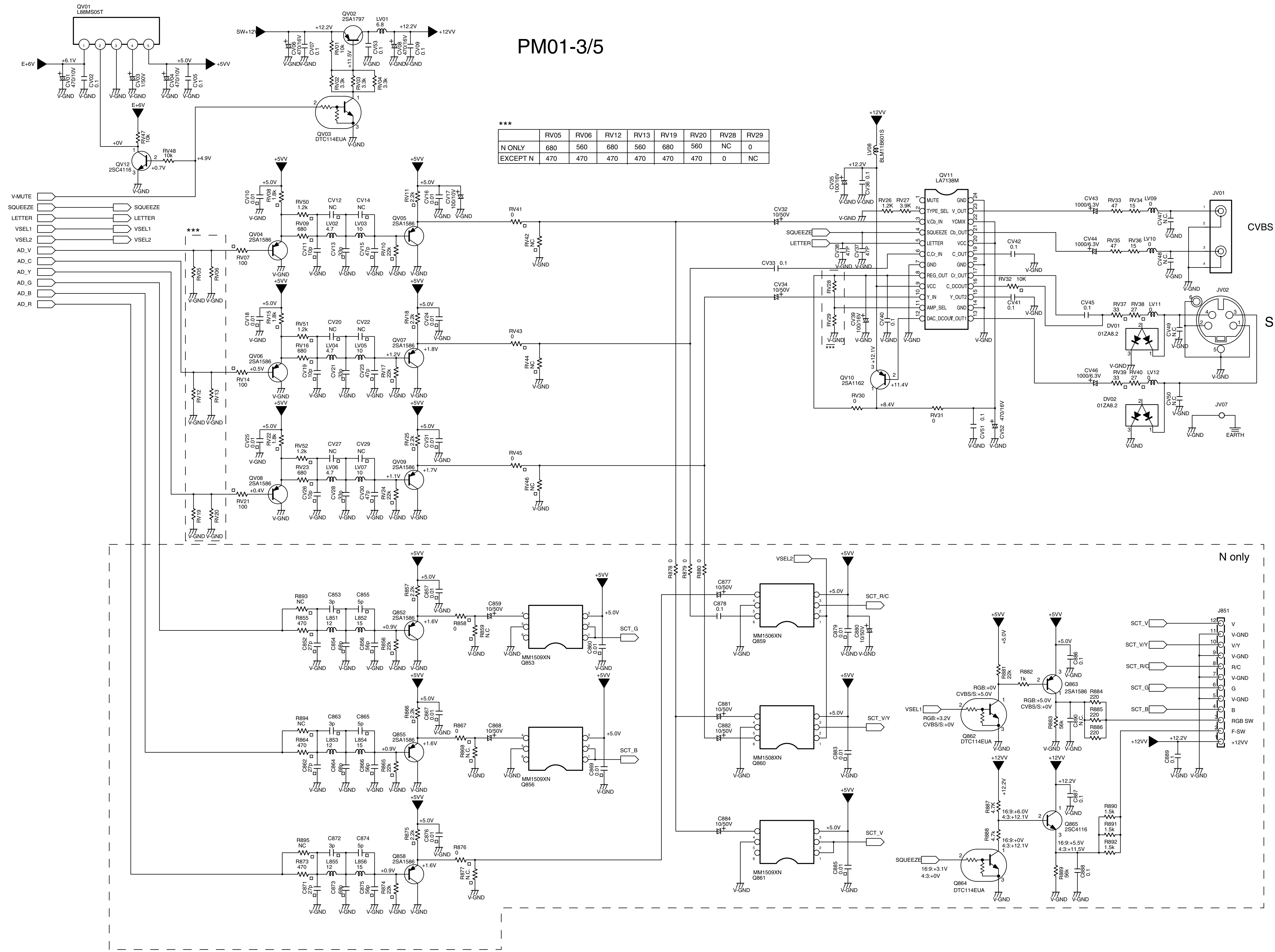
PM01-2/5


FROM PD01
JE01
SW+5V
D_OUT
VSEL2
SQUEEZE
LETTER
VSEL1
SDA0
SCL0
AV1CLK
CKE
XVQERST
VSYNC
HSYNC
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
XCSPRO2
VQESSO
VQESCK
D-GND
FROM PD01
JE02
CTS
DTR
RXD
TXD
XREADY
SSCK
S(FtoM)
S(MtoF)
XRESET
LT1
SW+12V
E+6V
+3VD
STB_CTL
E+5V
HEATER
DC+3.5V
-28V
FROM PD01
JE03
P_TRG
/TEST
IR_SW
D-BUS
V-MUTE
QE01
PM0033A
QA01
ADV7300
AD_V
AD_Y
AD_C
AD_Y/G
AD_Cb/B
AD_Cr/R
SPR4
QE03
BA25BC0FP
+3.3V
+2.5VD
QE02
K4S643232E-TC60
QE04
DTC114EUA
QE05
DTC114EUA
P/XI
QA02
2SA1586
QA03
2SA1586
QA04
2SA1586
AD_Y2
AD_G
AD_Cb
AD_B
AD_Cr
AD_R
PR2_Cr
PR2_Cb
PR2_Y
EARTH
***

***

	RA44	RA45	RA46	RA47	RA48	RA49
EXCEPT N	0	NC	0	NC	0	NC
N	NC	0	NC	0	NC	0

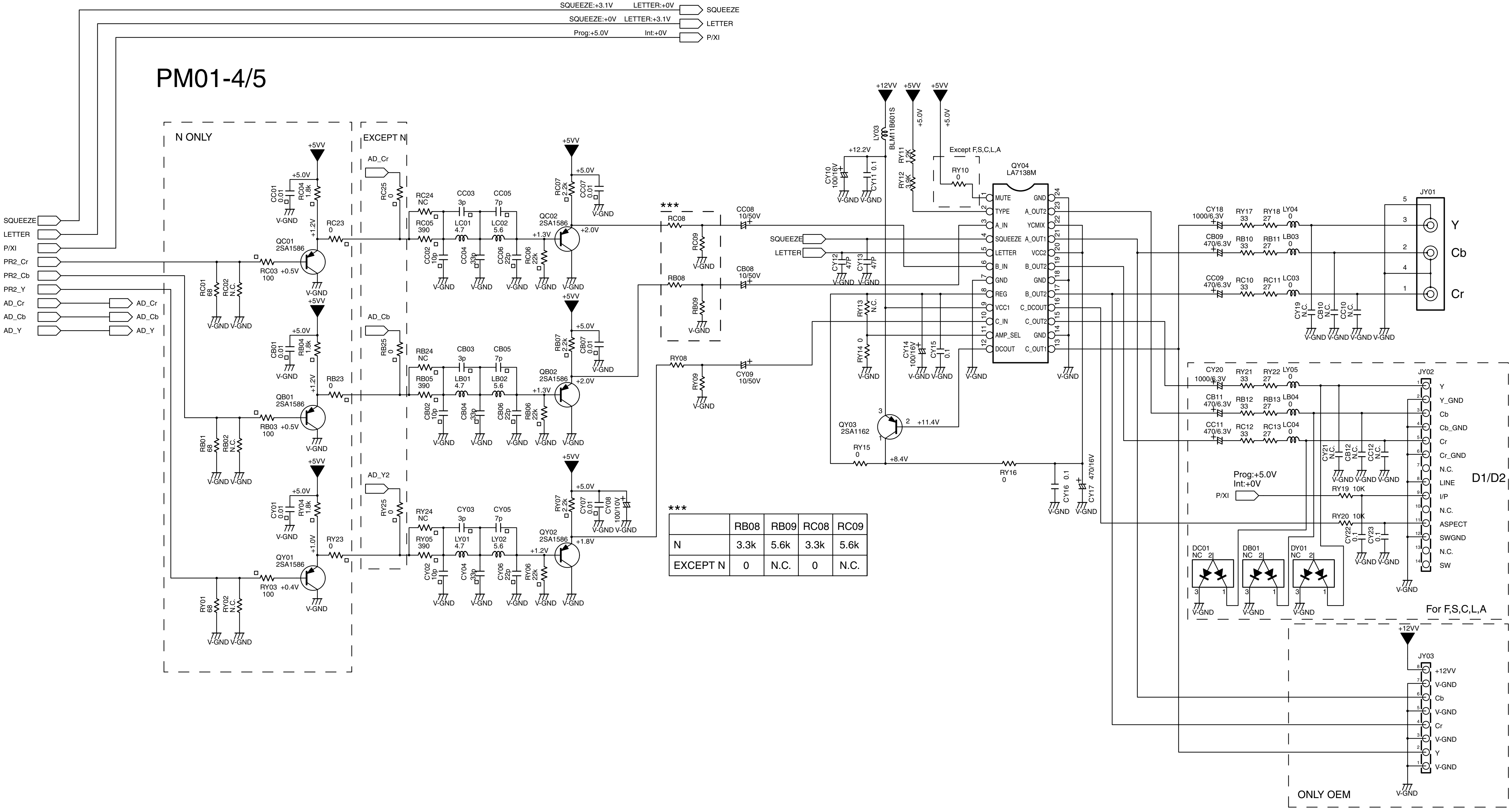
PM01-3/5


QV01 L88MS05T
QV02 2SA1797
QV03 DTC114EUA
QV12 2SC4116
QV04 2SA1586
QV05 2SA1586
QV06 2SA1586
QV07 2SA1586
QV08 2SA1586
QV09 2SA1586
QV10 2SA1162
QV11 LA7138M
LV08 BLM11B601S
DV01 01ZA8.2
DV02 01ZA8.2
JV01
JV02
JV07
CVBS
S1/S2
EARTH
E+6V
SW+12V
+5VV
+12VV
V-MUTE
SQUEEZE
LETTER
VSEL1
VSEL2
AD_V
AD_C
AD_Y
AD_G
AD_B
AD_R
V-GND
MUTE
TYPE_SEL
V.Cb_IN
C,Cr_IN
GND
REG_OUT
VCC
Y_IN
AMP_SEL
DAC_DCOUT
V_OUT
YCMIX
Cb_OUT
C_OUT
Cr_OUT
C_DCOUT
Y_OUT2
Y_OUT1
N only
MM1509XN Q853
MM1509XN Q856
MM1506XN Q859
MM1508XN Q860
MM1509XN Q861
Q852 2SA1586
Q855 2SA1586
Q858 2SA1586
Q862 DTC114EUA
Q863 2SA1586
Q864 DTC114EUA
Q865 2SC4116
J851
SCT_R/C
SCT_V/Y
SCT_V
SCT_G
SCT_B
V
V/Y
R/C
G
B
RGB SW
F-SW
+12VV
RGB:+0V
CVBS/S:+5.0V
RGB:+5.0V
CVBS/S:+0V
RGB:+3.2V
CVBS/S:+0V
16:9:+6.0V
4:3:+12.1V
16:9:+0V
4:3:+12.1V
16:9:+5.5V
4:3:+11.5V
16:9:+3.1V
4:3:+0V

***

	RV05	RV06	RV12	RV13	RV19	RV20	RV28	RV29
N ONLY	680	560	680	560	680	560	NC	0
EXCEPT N	470	470	470	470	470	470	0	NC

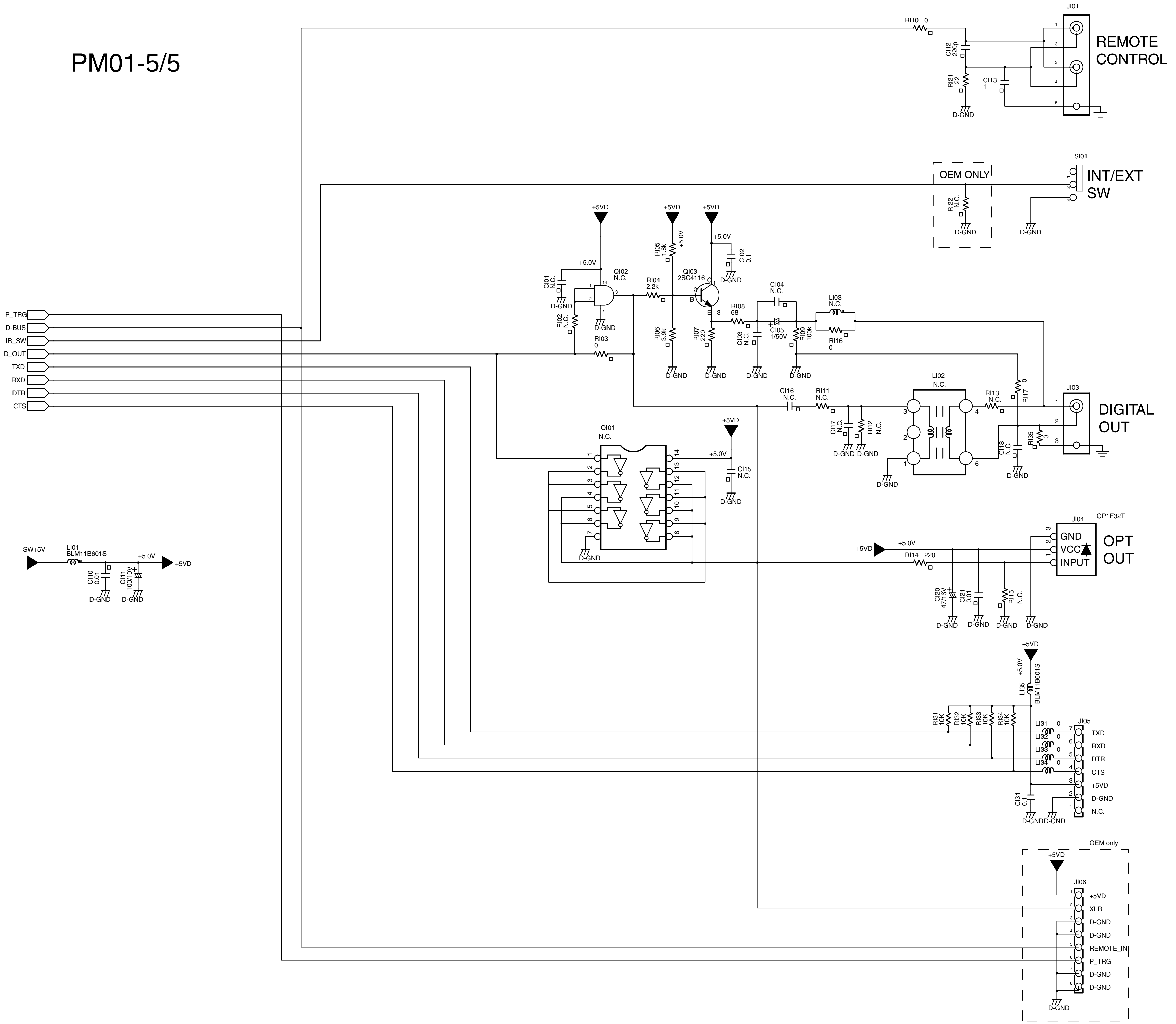
PM01-4/5

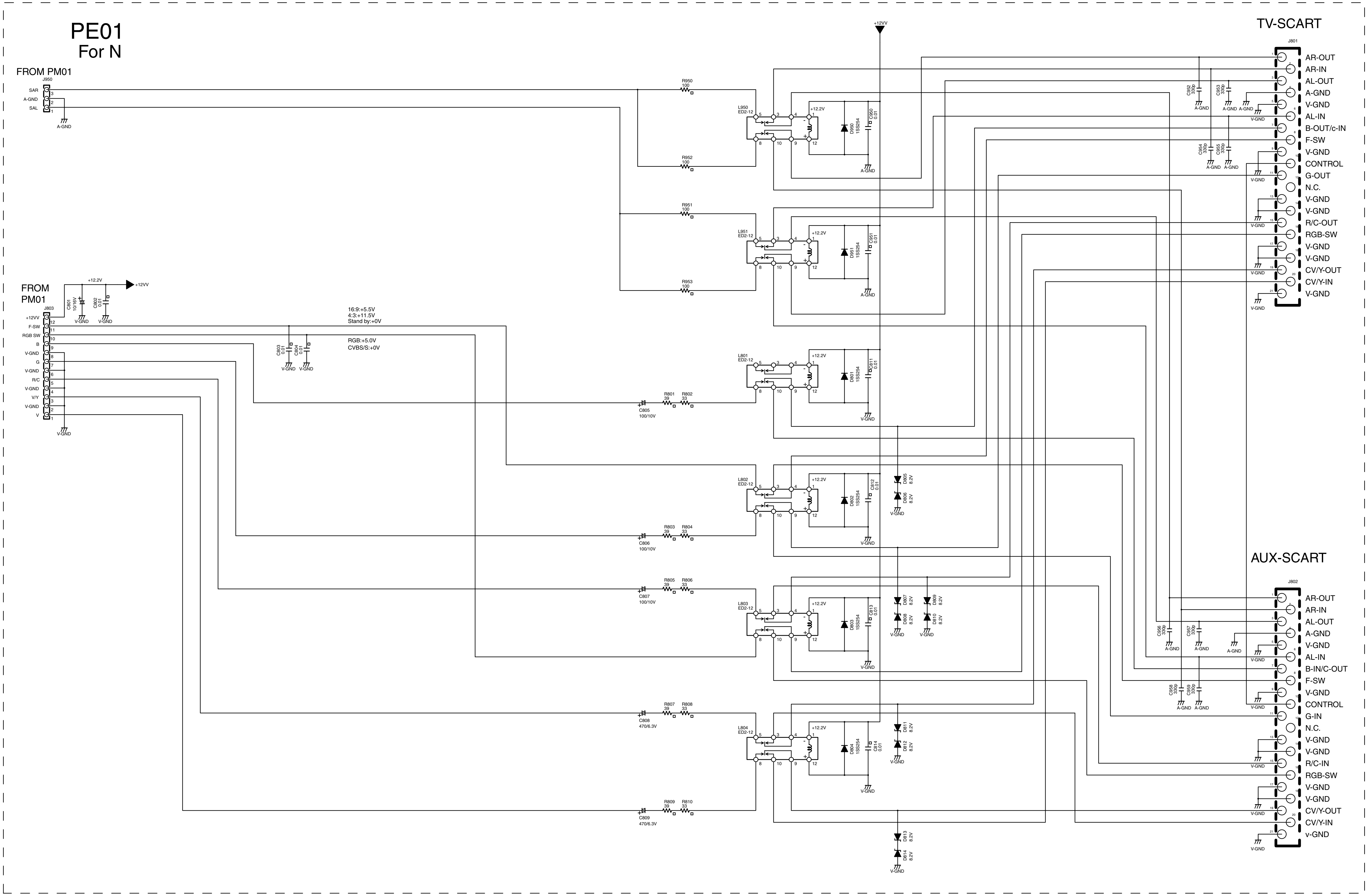

SQUEEZE:+3.1V LETTER:+0V SQUEEZE
SQUEEZE:+0V LETTER:+3.1V LETTER
Prog:+5.0V Int:+0V P/XI
N ONLY
EXCEPT N
SQUEEZE
LETTER
P/XI
PR2_Cr
PR2_Cb
PR2_Y
AD_Cr
AD_Cb
AD_Y
QC01 2SA1586
QB01 2SA1586
QY01 2SA1586
QC02 2SA1586
QB02 2SA1586
QY02 2SA1586
QY03 2SA1162
QY04 LA7138M
MUTE
TYPE
A_IN
SQUEEZE
LETTER
B_IN
GND
REG
VCC1
C_IN
AMP_SEL
DCOUT
A_OUT2
YCMIX
A_OUT1
VCC2
B_OUT2
B_OUT2
C_DCOUT
C_OUT2
C_OUT1
Except F,S,C,L,A
JY01
Y
Cb
Cr
JY02
Y_GND
Cb_GND
Cr_GND
N.C.
LINE
I/P
ASPECT
SWGND
SW
D1/D2
Prog:+5.0V Int:+0V
For F,S,C,L,A
JY03
+12VV
V-GND
ONLY OEM
DC01 NC
DB01 NC
DY01 NC
+5VV
+12VV
V-GND

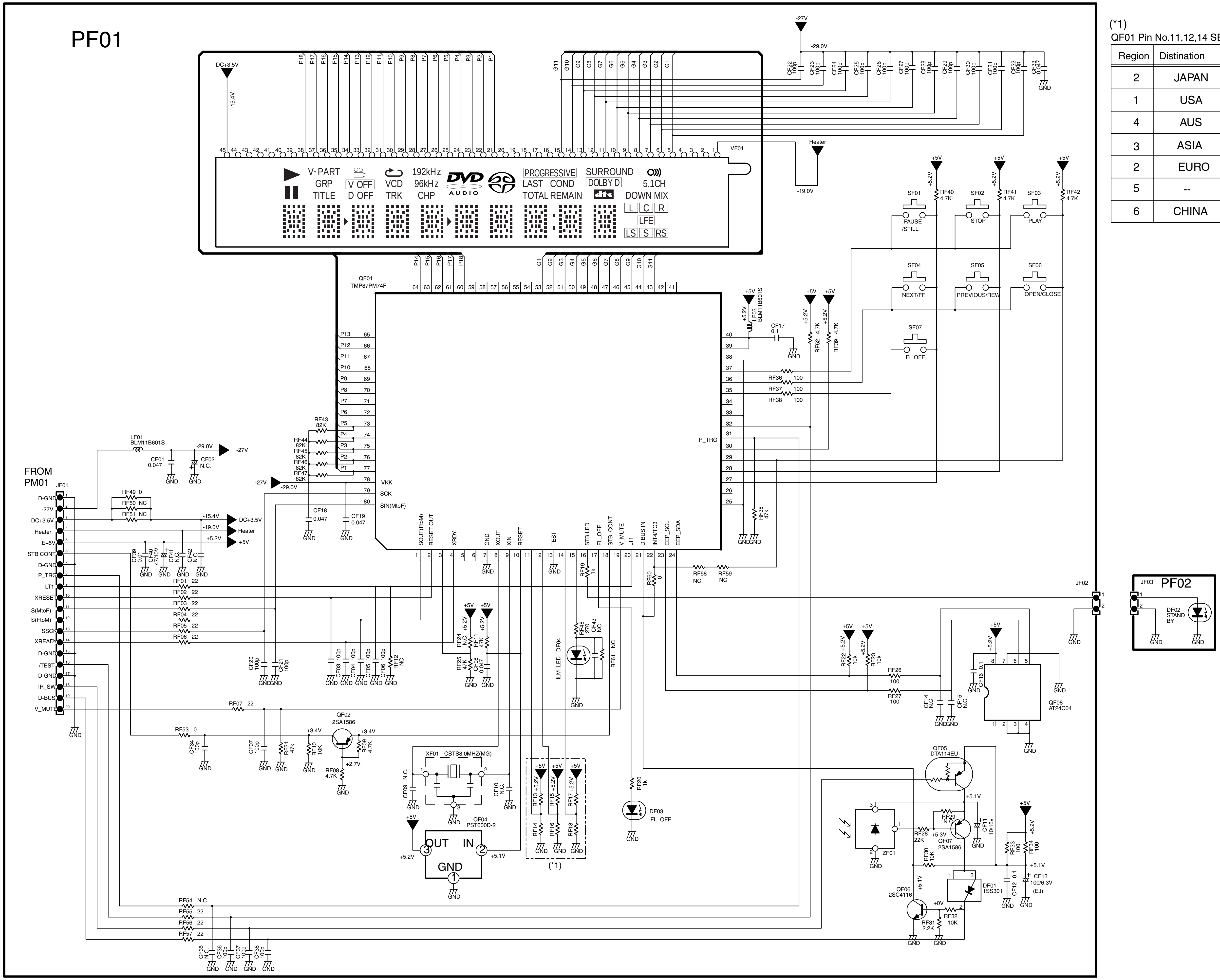
***

	RB08	RB09	RC08	RC09
N	3.3k	5.6k	3.3k	5.6k
EXCEPT N	0	N.C.	0	N.C.

PM01-5/5


P_TRG
D-BUS
IR_SW
D_OUT
TXD
RXD
DTR
CTS
RI10 0
JI01
CI12 220p
RI21 22
CI13 1
D-GND
REMOTE CONTROL
SI01
OEM ONLY
RI22 N.C.
INT/EXT SW
+5VD
+5.0V
CI01 N.C.
QI02 N.C.
RI02 N.C.
RI03 0
RI04 2.2k
RI05 1.8k
RI06 3.9k
QI03 2SC4116
CI02 0.1
RI07 220
RI08 68
CI03 N.C.
CI04 N.C.
CI05 1/50V
RI09 100k
LI03 N.C.
RI16 0
CI16 N.C.
RI11 N.C.
CI17 N.C.
RI12 N.C.
LI02 N.C.
RI13 N.C.
RI17 0
CI18 N.C.
RI35 0
JI03
DIGITAL OUT
QI01 N.C.
CI15 N.C.
JI04
GP1F32T
GND
VCC
INPUT
OPT OUT
RI14 220
CI20 47/16V
CI21 0.01
RI15 N.C.
SW+5V
LI01 BLM11B601S
CI10 0.01
CI11 100/10V
LI35 BLM11B601S
RI31 10K
RI32 10K
RI33 10K
RI34 10K
LI31 0
LI32 0
LI33 0
LI34 0
JI05
TXD
RXD
DTR
CTS
+5VD
D-GND
N.C.
CI31 0.1
OEM only
JI06
+5VD
XLR
D-GND
D-GND
REMOTE_IN
P_TRG
D-GND
D-GND


PE01
For N
FROM PM01
J950
SAR
A-GND
SAL
A-GND
FROM
PM01
J803
+12VV
F-SW
RGB SW
B
V-GND
G
V-GND
R/C
V-GND
V/Y
V-GND
V
V-GND
+12.2V
+12VV
C801
10/16V
C802
0.01
C803
0.01
C804
0.01
16:9:+5.5V
4:3:+11.5V
Stand by:+0V
RGB:+5.0V
CVBS/S:+0V
R950
100
R952
100
R951
100
R953
100
L950
ED2-12
L951
ED2-12
L801
ED2-12
L802
ED2-12
L803
ED2-12
L804
ED2-12
D950
1SS254
D951
1SS254
D801
1SS254
D802
1SS254
D803
1SS254
D804
1SS254
C950
0.01
C951
0.01
C811
0.01
C812
0.01
C813
0.01
C814
0.01
R801
39
R802
33
C805
100/10V
R803
39
R804
33
C806
100/10V
R805
39
R806
33
C807
100/10V
R807
39
R808
33
C808
470/6.3V
R809
39
R810
33
C809
470/6.3V
D805
8.2V
D806
8.2V
D807
8.2V
D808
8.2V
D809
8.2V
D810
8.2V
D811
8.2V
D812
8.2V
D813
8.2V
D814
8.2V
TV-SCART
J801
AR-OUT
AR-IN
AL-OUT
A-GND
V-GND
AL-IN
B-OUT/c-IN
F-SW
V-GND
CONTROL
G-OUT
N.C.
V-GND
V-GND
R/C-OUT
RGB-SW
V-GND
V-GND
CV/Y-OUT
CV/Y-IN
V-GND
C952
330p
C953
330p
C954
330p
C955
330p
AUX-SCART
J802
AR-OUT
AR-IN
AL-OUT
A-GND
V-GND
AL-IN
B-IN/C-OUT
F-SW
V-GND
CONTROL
G-IN
N.C.
V-GND
V-GND
R/C-IN
RGB-SW
V-GND
V-GND
CV/Y-OUT
CV/Y-IN
v-GND
C956
330p
C957
330p
C958
330p
C959
330p

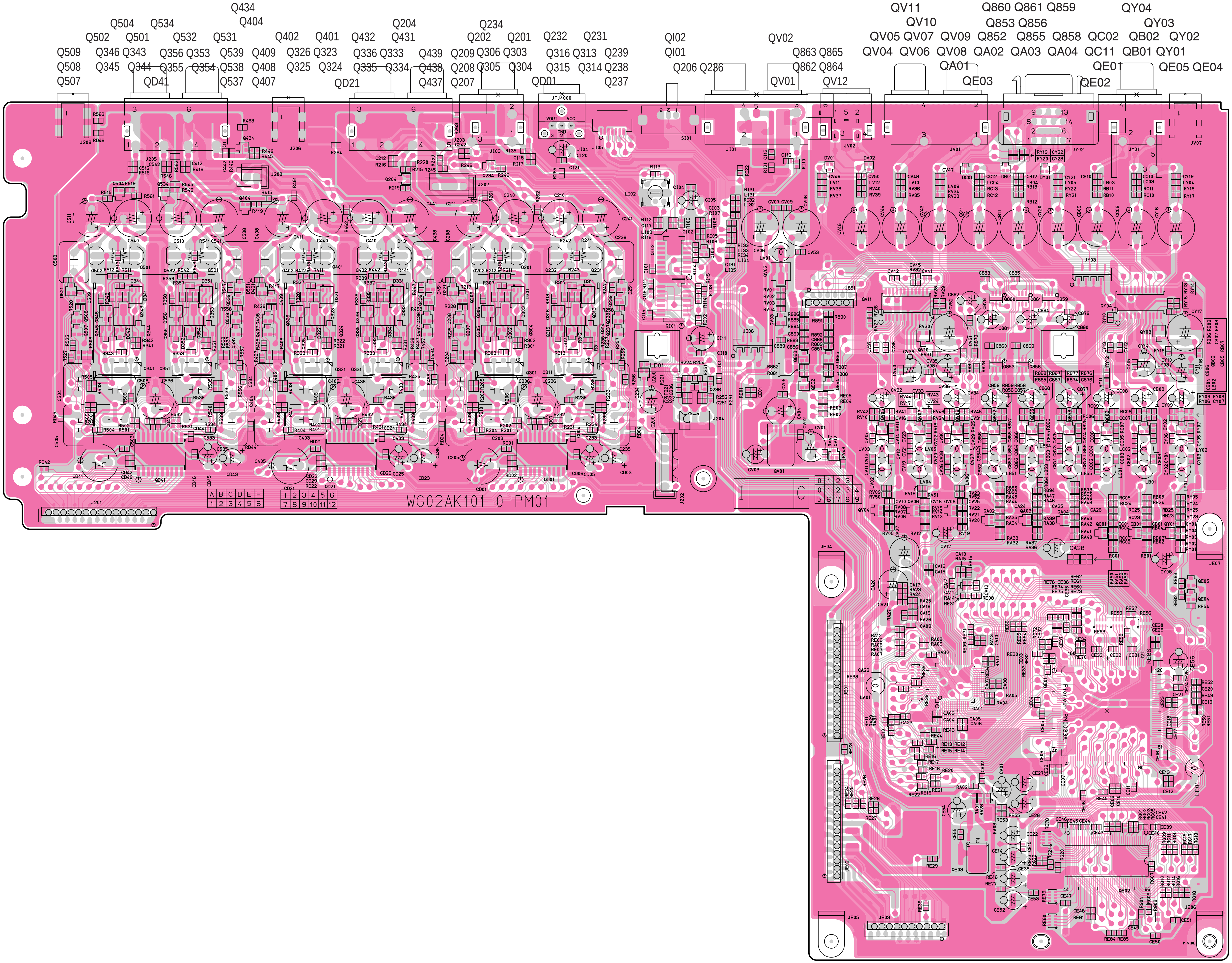

PF01
PF02
FROM PM01
JF01
JF02
JF03
VF01
QF01 TMP87PM74F
QF02 2SA1586
QF04 PST600D-2
QF05 DTA114EU
QF06 2SC4116
QF07 2SA1586
QF08 AT24C04
XF01 CSTS8.0MHZ(MG)
ZF01
DF01 1SS301
DF02 STAND BY
DF03 FL_OFF
DF04 ILM_LED
LF01 BLM11B601S
LF03 BLM11B601S
SF01 PAUSE /STILL
SF02 STOP
SF03 PLAY
SF04 NEXT/FF
SF05 PREVIOUS/REW
SF06 OPEN/CLOSE
SF07 FL.OFF
D-GND
-27V
DC+3.5V
Heater
E+5V
STB CONT
P_TRG
LT1
XRESET
S(MtoF)
S(FtoM)
SSCK
XREADY
/TEST
IR_SW
D-BUS
V_MUTE
VKK
SCK
SIN(MtoF)
SOUT(FtoM)
RESET OUT
XRDY
GND
XOUT
XIN
RESET
TEST
STB LED
FL_OFF
STB_CONT
V_MUTE
LT1
D BUS IN
INT4/TC3
EEP_SCL
EEP_SDA
-29.0V
-19.0V
-15.4V
+5.2V
+5.1V
+3.4V
+2.7V
+0V
(*1)
OUT IN GND
V-PART GRP TITLE
V OFF D OFF
VCD TRK
192kHz 96kHz CHP
DVD AUDIO
PROGRESSIVE LAST COND TOTAL REMAIN
SURROUND DOLBY D
5.1CH DOWN MIX
L C R LFE LS S RS

(*1)
QF01 Pin No.11,12,14 SETTING

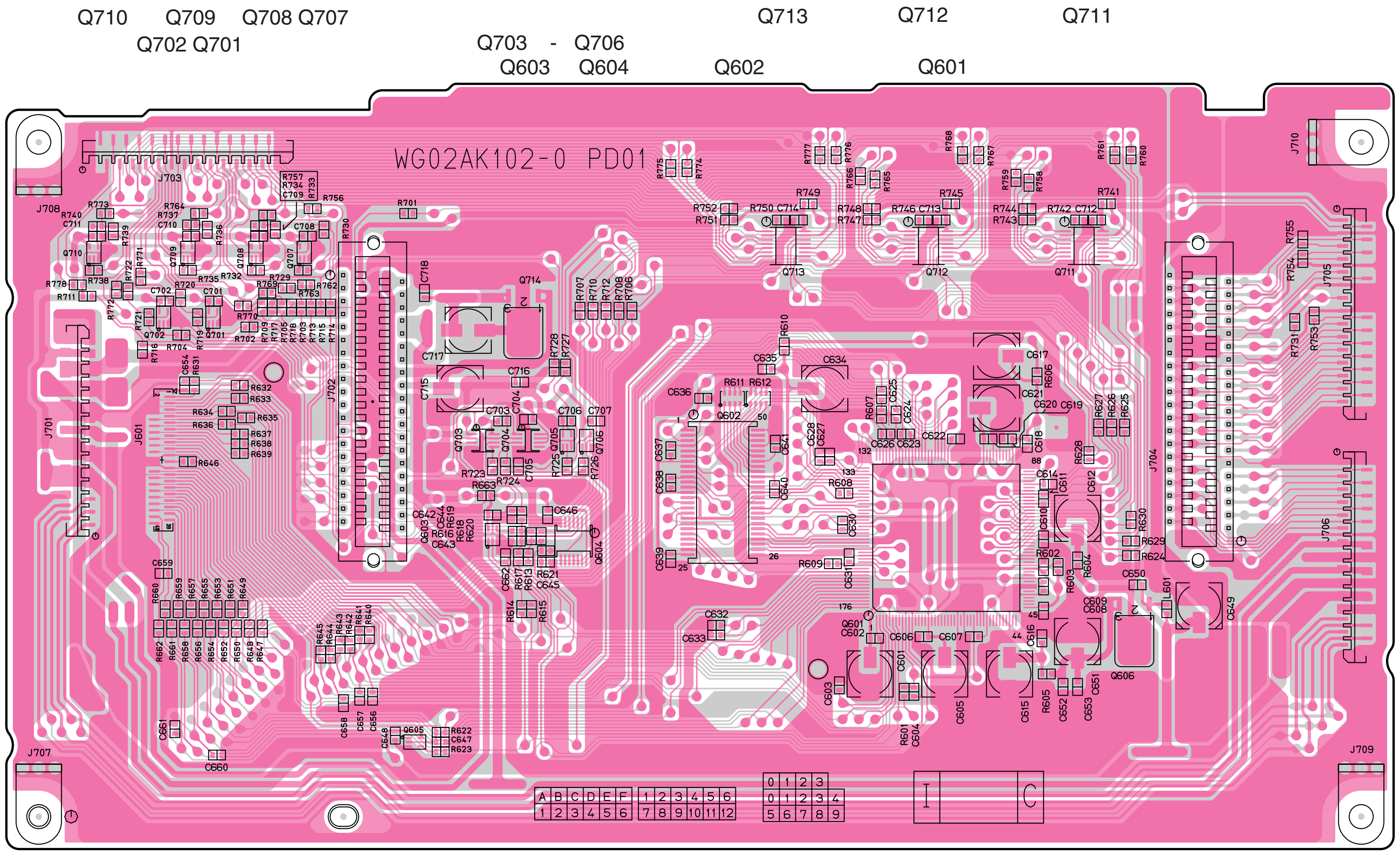
Region	Distination	Pin No. MS1	11	12	14
2	JAPAN	0	L	L	L
1	USA	1	H	L	L
4	AUS	2	L	H	L
3	ASIA	2	H	H	L
2	EURO	4	L	L	H
5	--	4	H	L	H
6	CHINA	2	H	H	H

11. PARTS LOCATION

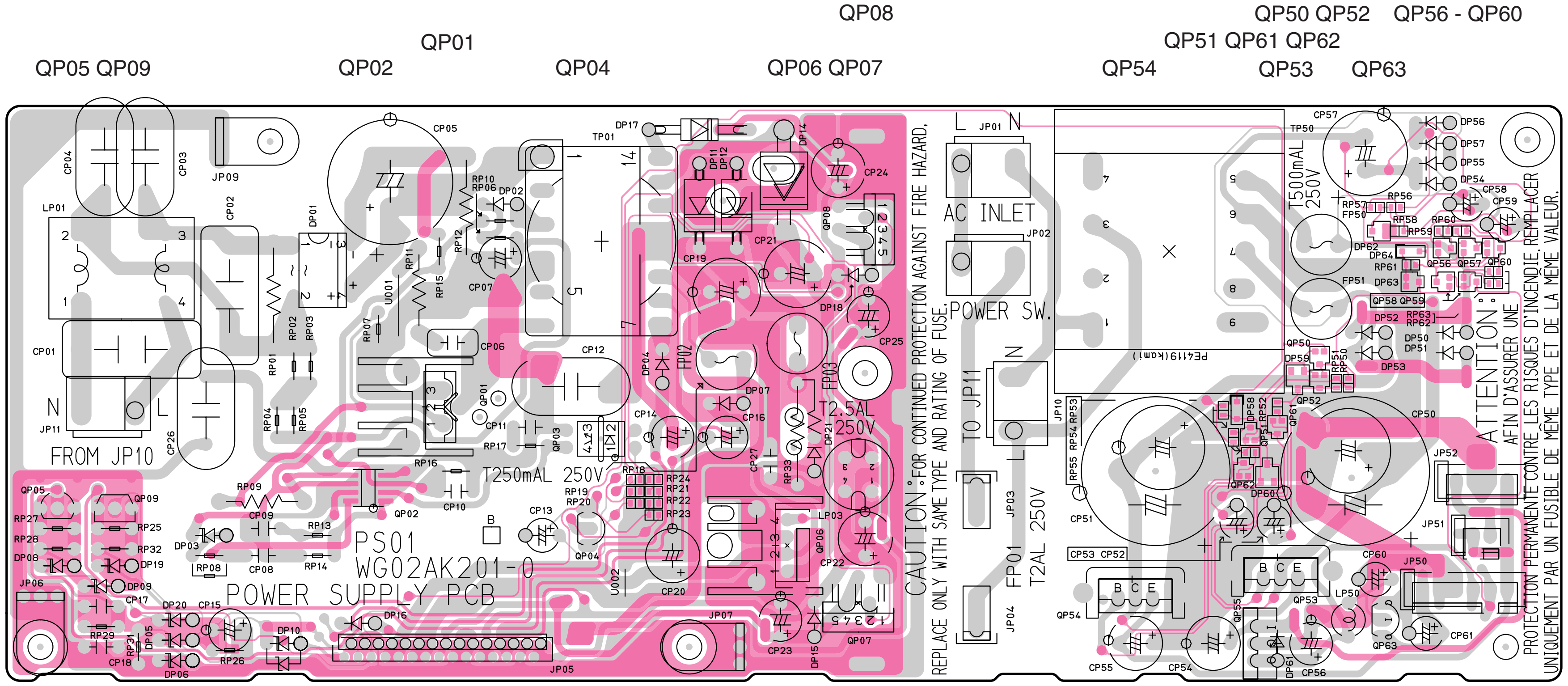
PM01


Q434
Q404
Q504 Q534
Q502 Q501 Q532 Q531
Q402 Q401
Q432 Q431
Q204
Q234
Q202 Q201
Q232 Q231
Q509 Q346 Q343 Q356 Q353 Q539 Q409 Q326 Q323 Q336 Q333 Q439 Q209 Q306 Q303 Q316 Q313 Q239
Q508 Q345 Q344 Q355 Q354 Q538 Q408 Q325 Q324 Q335 Q334 Q438 Q208 Q305 Q304 Q315 Q314 Q238
Q507 QD41 Q537 Q407 QD21 Q437 Q207 QD01 Q237
QI02
QI01
Q206 Q236
QV02
Q863 Q865
Q862 Q864
QV01 QV12
QV11
QV10
QV05 QV07 QV09 Q852 Q855 Q858 QC02 QB02 QY02
QV04 QV06 QV08 QA02 QA03 QA04 QC11 QB01 QY01
QA01
QE03
QE01
QE02
QE05 QE04
Q860 Q861 Q859
Q853 Q856
QY04
QY03
WG02AK101-0 PM01

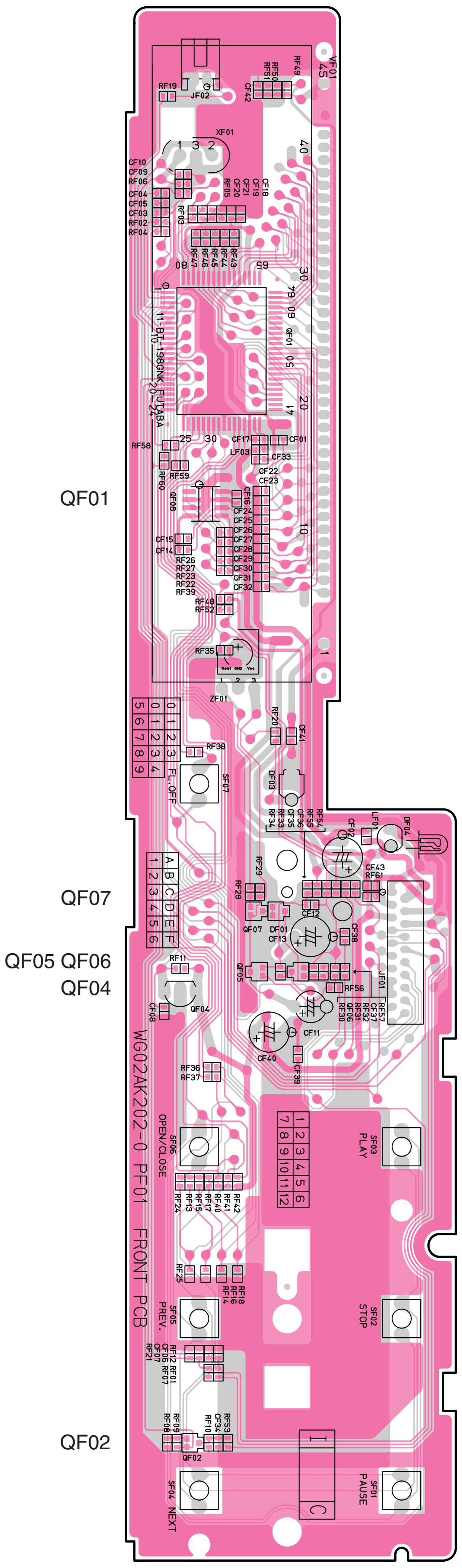
PD01


Q710 Q709 Q708 Q707
Q702 Q701
Q703 - Q706
Q603 Q604
Q713
Q602
Q712
Q601
Q711
WG02AK102-0 PD01

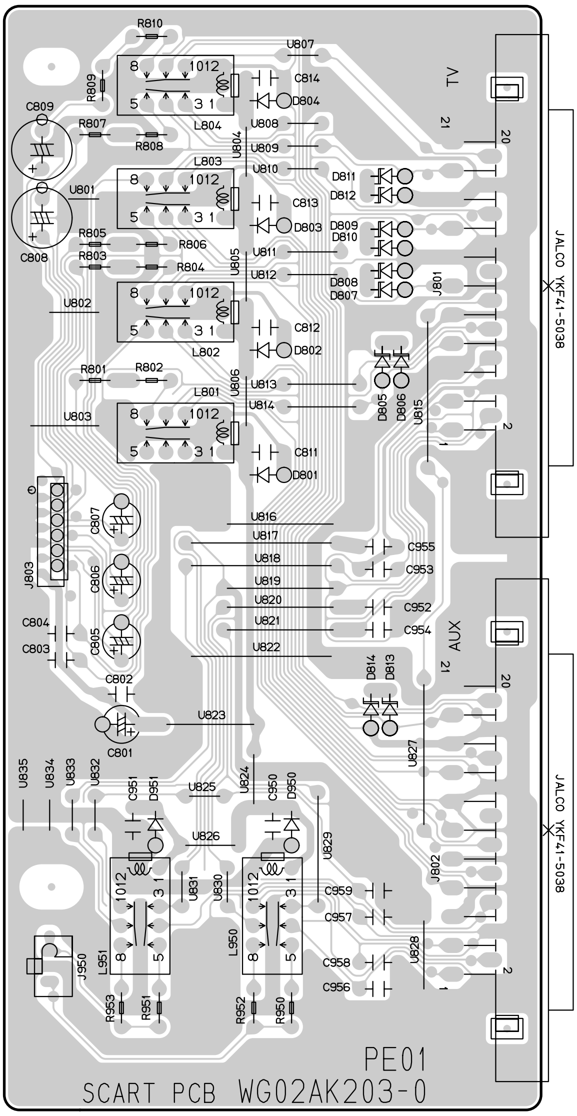
PS01


QP08
QP50 QP52 QP56 - QP60
QP01
QP51 QP61 QP62
QP05 QP09
QP02
QP04
QP06 QP07
QP54
QP53
QP63
FROM JP10
PS01
WG02AK201-0
POWER SUPPLY PCB
T250mAL 250V
T2.5AL 250V
AC INLET
POWER SW.
TO JP11
FP01 T2AL 250V
T500mAL 250V
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD.
REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
ATTENTION: AFIN D'ASSURER UNE
PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE REMPLACER
UNIQUEMENT PAR UN FUSIBLE DE MÊME TYPE ET DE LA MÊME VALEUR.

PF01

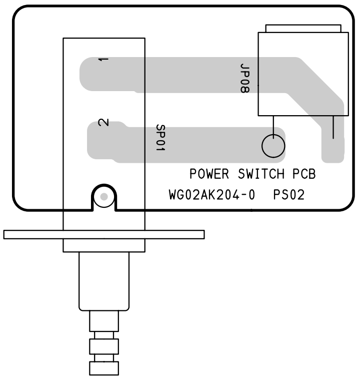

QF01
QF07
QF05 QF06
QF04
QF02
WG02AK202-0 PF01 FRONT PCB
OPEN/CLOSE
PLAY
PREV.
STOP
NEXT
PAUSE

PE01 [N ONLY]



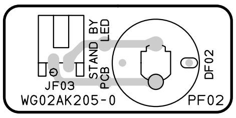
R810
U807
R809
C809
R807
R808
L804
U808
U809
U810
L803
U804
D811
D812
C813
D803
D809
D810
U801
C808
R805
R806
R803
R804
U805
U811
U812
D808
D807
U802
C812
D802
C814
D804
R801
R802
L802
L801
U806
U813
U814
U803
C811
D801
D805
D806
U815
TV
21
20
2
1
J801
JALCO YKF41-5038
J803
C807
C806
C805
C804
C803
C802
C801
U816
U817
U818
U819
U820
U821
U822
U823
C955
C953
C952
C954
AUX
D814
D813
U827
J802
U835
U834
U833
U832
C951
D951
U825
U824
C950
D950
U826
U829
U831
U830
C959
C957
C958
C956
U828
J950
L951
L950
R953
R951
R952
R950
PE01
SCART PCB WG02AK203-0

PS02



1
2
JP08
SP01
POWER SWITCH PCB
WG02AK204-0 PS02

PF02



STAND BY LED PCB
JF03
DF02
WG02AK205-0
PF02

12 MICROPROCESSOR AND IC DATA

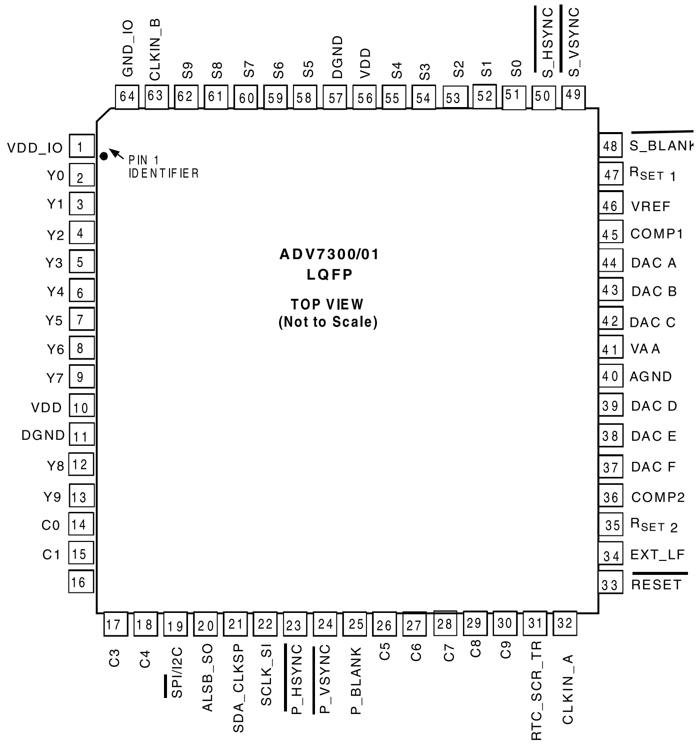
QF01:TMP87CM71F

Pin	PORT	Signal name	I/O	Contents of control	
1	P02/SO1	SOUT (F to M)	O	Serial bus data output for DV747	
2	P03	RESET_OUT	O	For the DV747 RESET terminal control	RESET: L
3	P04	DV8300/DV8310	I	Setup of Model	Circuit diagram reference
4	P05	XRDY	O	Serial data communication request signal for DV747	High: request /Low: no
5	P06	N C			
6	P07	N C			
7	VSS			GND	
8	XOUT			8MHz X'TAL	
9	XIN			8MHz X'TAL	
10	RESET	RESET	I	Reset signal for the microcomputer	
11	P22	MODEL1	I	Set up of version	Circuit diagram reference
12	P21	MODEL2	I	Set up of version	Circuit diagram reference
13	TEST			GND	
14	P20	MODEL3	I	Set up of version	Circuit diagram reference
15	P10	ILM_LED	O	ILM LED for FL	Light burned: H
16	P11	STB_LED	O	It is light at the STANDBY	Light burned: H
17	P12	FL_OFF_LED	O	Lighting (FL Lights-out)	Light burned: H
18	P13	STB_CONT	O	Power supply control for DV747	Stand-by time: LOW
19	P14	V_MUTE	O	Mute control for Video	At the time of Mute: L
20	P15	LT1	I	Serial bus data Ready/Busy input for DVD747	High: Ready/Low: Busy
21	P16	D_BUS_IN	I	D-BUS input	
22	P17/TC3	IR	I	IR sensor input	
23	P30	SCL	O	I2C clock (EEPROM control)	AT24C04
24	P31	SDA	I/O	I2C data (EEPROM control)	AT24C04
25	P32			GND	
26	P40	N C			FL Lights-out
27	P41	KEY_IN_0	I	Key matrix input (Tactile switch)	
28	P42	KEY_IN_1	I	Key matrix input (Tactile switch)	
29	P43	KEY_IN_2	I	Key matrix input (Tactile switch)	
30	P44	KEY_IN_3	I	Key matrix input (Tactile switch) spare	
31	P45	PowerTrigger	I	By the AD change, Power decision	Setup of Model is Linkage with
32	P46	SreviceKey	I	Service function switching	
33	P47			GND	
34	P50	KEY_OUT_0	O	Tactile switch spare	
35	P51	KEY_OUT_1	O	Tactile switch	
36	P52	KEY_OUT_2	O	Tactile switch	
37	P53	KEY_OUT_3	O	Tactile switch	
38	VASS	GND		GND for A/D	
39	VAREF	5V	O	A reference voltage for A/D	
40	VDD	5V		Power supply	

Pin	PORT	Signal name	I/O	Contents of control	
41	P60	NC			
42	P61	NC			
43	P62	G11	O	FL indication	
44	P63	G10	O	FL indication	
45	P64	G9	O	FL indication	
46	P65	G8	O	FL indication	
47	P66	G7	O	FL indication	
48	P67	G6	O	FL indication	
49	P70	G5	O	FL indication	
50	P71	G4	O	FL indication	
51	P72	G3	O	FL indication	
52	P73	G2	O	FL indication	
53	P74	G1	O	FL indication	
54	P75	N C			
55	P76	N C			
56	P77	N C			
57	P80	N C			
58	P81	N C			
59	P82	N C			
60	P83	P18	O	FL indication	
61	P84	P17	O	FL indication	
62	P85	P16	O	FL indication	
63	P86	P15	O	FL indication	
64	P87	P14	O	FL indication	
65	P90	P13	O	FL indication	
66	P91	P12	O	FL indication	
67	P92	P11	O	FL indication	
68	P93	P10	O	FL indication	
69	P94	P9	O	FL indication	
70	P95	P8	O	FL indication	
71	P96	P7	O	FL indication	
72	P97	P6	O	FL indication	
73	PD00	P5	O	FL indication	
74	PD01	P4	O	FL indication	
75	PD02	P3	O	FL indication	
76	PD03	P2	O	FL indication	
77	PD04	P1	O	FL indication	
78	VKK	-27V		Power supply for the FL drive	
79	P00/SCK1	SCK	O	Serial bus clock output for DV747	
80	P01/SI1	SIN (M to F)	I	Serial bus data input for DV747	

QA01 : ADV7300KST

- **Video Encoder IC**
- **Pin Arrangement**


ADV7300/01
LQFP
TOP VIEW
(Not to Scale)
PIN 1
IDENTIFIER
1 VDD_IO
2 Y0
3 Y1
4 Y2
5 Y3
6 Y4
7 Y5
8 Y6
9 Y7
10 VDD
11 DGND
12 Y8
13 Y9
14 C0
15 C1
16
17 C3
18 C4
19 SPI/I2C
20 ALSB_SO
21 SDA_CLKSP
22 SCLK_SI
23 P_HSYNC
24 P_VSYNC
25 P_BLANK
26 C5
27 C6
28 C7
29 C8
30 C9
31 RTC_SCR_TR
32 CLKIN_A
33 RESET
34 EXT_LF
35 RSET 2
36 COMP2
37 DAC F
38 DAC E
39 DAC D
40 AGND
41 VAA
42 DAC C
43 DAC B
44 DAC A
45 COMP1
46 VREF
47 RSET 1
48 S_BLANK
49 S_VSYNC
50 S_HSYNC
51 S0
52 S1
53 S2
54 S3
55 S4
56 VDD
57 DGND
58 S5
59 S6
60 S7
61 S8
62 S9
63 CLKIN_B
64 GND_IO

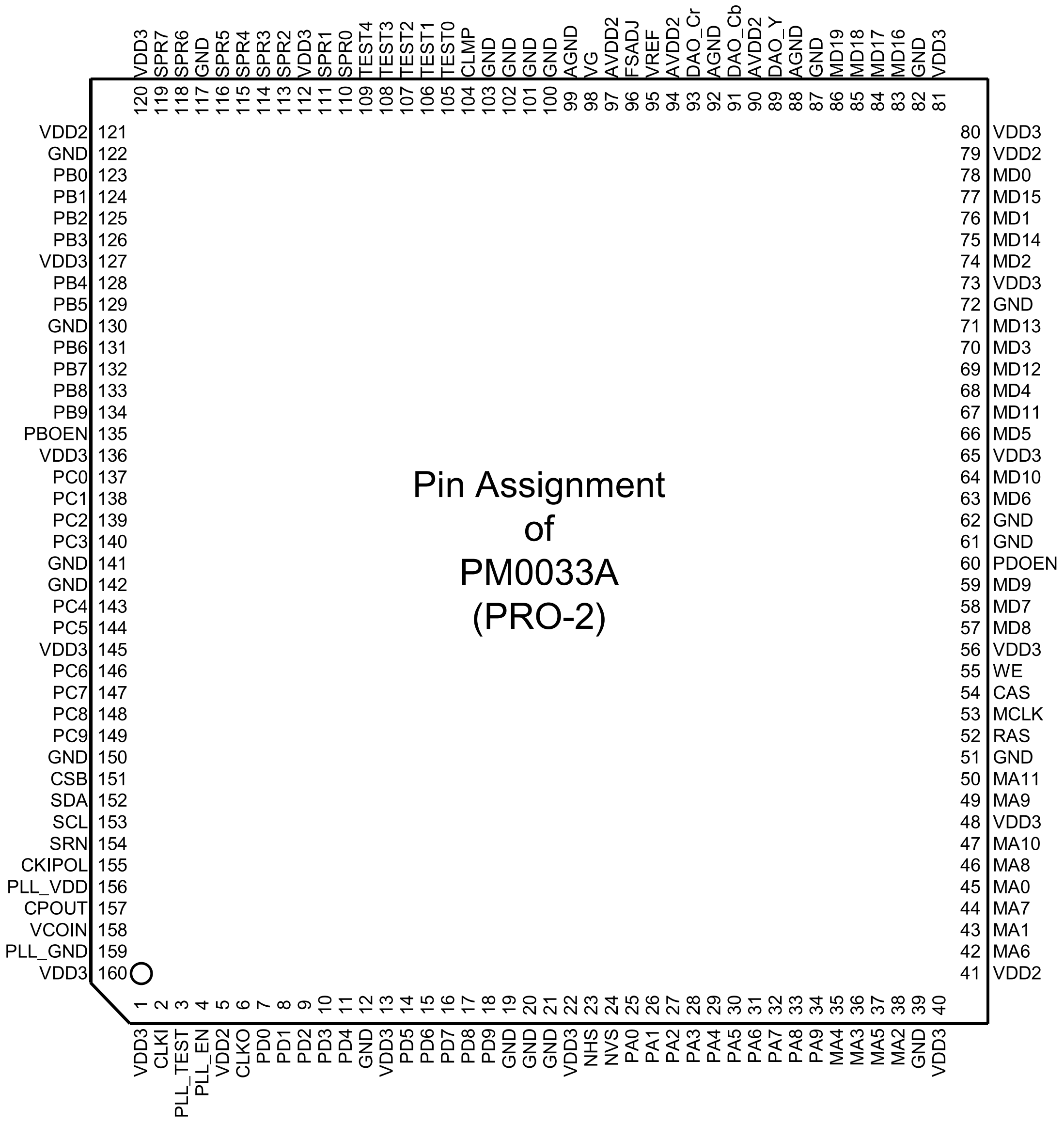
● Pin Function

Pin Mnemonic	Input/Output	Function
DGND	G	Digital Ground
AGND	G	Analog Ground
GND_IO	G	Digital Ground
CLKIN_B	I	Pixel Clock Input. Requires a 27MHz reference clock for Progressive Scan Mode or a 74.25MHz (74.1758MHz) reference clock in HDTV mode. This clock input pin is only used in simultaneous SD and HD mode.
CLKIN_A	I	Pixel Clock Input for HD only or SD only modes.
COMP	O	Compensation Pin for DACs. Connect 0.1μF Capacitor from COMP pin to V_{AA}.
DAC A	O	CVBS/ GREEN/ Y SD analog output.
DAC B	O	Luma/ BLUE/ U SD analog output.
DAC C	O	Chroma/ RED/ V SD analog output.
DAC D	O	in SD only mode: CVBS/GREEN/ Y analog output in HD only mode and simultaneous HD/SD : Y/ GREEN (HD) analog output.
DAC E	O	in SD only mode: Luma/BLUE/ U analog output in HD only mode and simultaneous HD/SD : Pr/ RED (HD) analog output.

Pin Mnemonic	Input/Output	Function
DAC F	O	in SD only mode: Chroma/RED/ V analog output in HD only mode and simultaneous HD/SD : Pb/ BLUE (HD) analog output.
P_BLANK	I	Video Blanking Control Signal for HD sync in simultaneous SD/HD mode and HD HD only mode.
P_$\overline{\text{HSYNC}}$	I	Video Horizontal Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
P_$\overline{\text{VSYNC}}$	I	Video Vertical Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
S_$\overline{\text{BLANK}}$	I/O	Video Blanking Control Signal for SD.
S_$\overline{\text{HSYNC}}$	I/O	Video Horizontal Control Signal for SD. Option to o/p SD HSYNC or HD HSYNC in SD Slave Mode 0 and/or any HD mode.
S_$\overline{\text{VSYNC}}$	I/O	Video Blanking Control Signal for SD. Option to o/p SD VSYNC or SD HSYNC in SD Slave Mode 0 and/or any HD mode.
C9-0	I	10-Bit Progressive scan/ HDTV input port for CrCb color data in 4:2:2 input mode. In 4:4:4 input mode this input port is used for the Cb [Blue/U] data. The LSBs are set up on pins C0, C1. In default mode the input on this port is output on DAC E.
Y9-0	I	10-Bit Progressive scan/ HDTV input port for Y data. The LSBs are set up on pins Y0, Y1. In default mode the input on this port is output on DAC D.
S9-S0	I	10-Bit Standard Definition input port. Or Progressive Scan/ HDTV input port for Cr [Red/V] color data in 4:4:4 input mode. The LSBs are set up on pins S0, S1. In default mode the input on this port is output on DAC F.
$\overline{\text{RESET}}$	I	This input resets the on-chip timing generator and sets the ADV7300/01 into Default Register setting. Reset is an active low signal.
$R_{SET1,2}$	I	A 1520 Ohms resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.
SCL_SI	I	Multifunctional input: MPU Port Serial Interface Clock Input or SPI input.
SDA_CLKSP	I/O	Multifunctional pin: MPU Port Serial Data Input/Output or SPI clock input.
ALSB_SO	I/O	Multifunctional pin. TTL Address Input. This signal sets up the LSB of the MPU address. When this pin is tied low the I2C filter is activated which reduces noise on the I2C interface. When this pin is tied high, the input bandwidth on the I2C lines is increased. SPI output.
$\overline{\text{SPI}}$/I2C	I	When this input pin is brought low, the ADV7300/01 interfaces over the SPI port and uses this input as part of the 4 wire SPI interface. When this input pin is tied high [Vdd_IO], the ADV7300/01 interfaces over the I2C port.
V_{DD_IO}	P	Digital power supply
V_{DD}	P	Digital power supply
V_{AA}	P	Analog power supply
V_{REF}	I/O	Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235V).
EXT_LF	I	External Loop filter for the internal PLL.
RTC_SCR_TR	I	Multifunctional Input: Real Time Control (RTC) input, Timing Reset input, Subcarrier Reset input.

QE01 : PM0033A

- Progressive Scan Converter (PRO2)
- Pin Arrangement


Pin Assignment
of
PM0033A
(PRO-2)
1 VDD3
2 CLKI
3 PLL_TEST
4 PLL_EN
5 VDD2
6 CLKO
7 PD0
8 PD1
9 PD2
10 PD3
11 PD4
12 GND
13 VDD3
14 PD5
15 PD6
16 PD7
17 PD8
18 PD9
19 GND
20 GND
21 GND
22 VDD3
23 NHS
24 NVS
25 PA0
26 PA1
27 PA2
28 PA3
29 PA4
30 PA5
31 PA6
32 PA7
33 PA8
34 PA9
35 MA4
36 MA3
37 MA5
38 MA2
39 GND
40 VDD3
41 VDD2
42 MA6
43 MA1
44 MA7
45 MA0
46 MA8
47 MA10
48 VDD3
49 MA9
50 MA11
51 GND
52 RAS
53 MCLK
54 CAS
55 WE
56 VDD3
57 MD8
58 MD7
59 MD9
60 PDOEN
61 GND
62 GND
63 MD6
64 MD10
65 VDD3
66 MD5
67 MD11
68 MD4
69 MD12
70 MD3
71 MD13
72 GND
73 VDD3
74 MD2
75 MD14
76 MD1
77 MD15
78 MD0
79 VDD2
80 VDD3
81 VDD3
82 GND
83 MD16
84 MD17
85 MD18
86 MD19
87 GND
88 AGND
89 DAO_Y
90 AVDD2
91 DAO_Cb
92 AGND
93 DAO_Cr
94 AVDD2
95 VREF
96 FSADJ
97 AVDD2
98 VG
99 AGND
100 GND
101 GND
102 GND
103 GND
104 CLMP
105 TEST0
106 TEST1
107 TEST2
108 TEST3
109 TEST4
110 SPR0
111 SPR1
112 VDD3
113 SPR2
114 SPR3
115 SPR4
116 SPR5
117 GND
118 SPR6
119 SPR7
120 VDD3
121 VDD2
122 GND
123 PB0
124 PB1
125 PB2
126 PB3
127 VDD3
128 PB4
129 PB5
130 GND
131 PB6
132 PB7
133 PB8
134 PB9
135 PBOEN
136 VDD3
137 PC0
138 PC1
139 PC2
140 PC3
141 GND
142 GND
143 PC4
144 PC5
145 VDD3
146 PC6
147 PC7
148 PC8
149 PC9
150 GND
151 CSB
152 SDA
153 SCL
154 SRN
155 CKIPOL
156 PLL_VDD
157 CPOUT
158 VCOIN
159 PLL_GND
160 VDD3

- Pin Function

Pin No.	Name	I/O/ P	Attribute	Functional Description
1	VDD3	P	-	VDD for IO (3.3V)
2	CLKI	In	LVTTL	27MHz System clock input terminal
3	PLL_TEST	In	LVTTL	Test exclusive use input terminal
4	PLL_EN	In	LVTTL	PLL enable input terminal
5	VDD2	P	-	VDD for Core (2.5V)
6	CLKO	Out	2mA	27MHz Clock output terminal
7	PD0	Inout	LVTTL, leakage, 2mA	Image data I/O port D(LSB)
8	PD1	Inout	LVTTL, leakage, 2mA	Image data I/O port D
9	PD2	Inout	LVTTL, leakage, 2mA	Image data I/O port D
10	PD3	Inout	LVTTL, leakage, 2mA	Image data I/O port D
11	PD4	Inout	LVTTL, leakage, 2mA	Image data I/O port D
12	GND	P	-	Digital Ground
13	VDD3	P	-	VDD for IO (3.3V)
14	PD5	Inout	LVTTL, leakage, 2mA	Image data I/O port D
15	PD6	Inout	LVTTL, leakage, 2mA	Image data I/O port D
16	PD7	Inout	LVTTL, leakage, 2mA	Image data I/O port D
17	PD8	Inout	LVTTL, leakage, 2mA	Image data I/O port D
18	PD9	Inout	LVTTL, leakage, 2mA	Image data I/O port D(MSB)
19	GND	P	-	Digital Ground
20	GND	P	-	Digital Ground
21	GND	P	-	Digital Ground
22	VDD3	P	-	VDD for IO (3.3V)
23	NHS	In	Schmitt	Horizontal synchronization input terminal
24	NVS	In	Schmitt	Vertical synchronization input terminal
25	PA0	In	LVTTL	Image data I/O port A(LSB)
26	PA1	In	LVTTL	Image data I/O port A
27	PA2	In	LVTTL	Image data I/O port A
28	PA3	In	LVTTL	Image data I/O port A
29	PA4	In	LVTTL	Image data I/O port A
30	PA5	In	LVTTL	Image data I/O port A
31	PA6	In	LVTTL	Image data I/O port A
32	PA7	In	LVTTL	Image data I/O port A
33	PA8	In	LVTTL	Image data I/O port A
34	PA9	In	LVTTL	Image data I/O port A(MSB)
35	MA4	Out	2mA	SDRAM address output terminal
36	MA3	Out	2mA	SDRAM address output terminal
37	MA5	Out	2mA	SDRAM address output terminal
38	MA2	Out	2mA	SDRAM address output terminal
39	GND	P	-	Digital Ground
40	VDD3	P	-	VDD for IO (3.3V)

Pin No.	Name	I/O/ P	Attribute	Functional Description
41	VDD2	P	-	VDD for Core (2.5V)
42	MA6	Out	2mA	SDRAM address output terminal
43	MA1	Out	2mA	SDRAM address output terminal
44	MA7	Out	2mA	SDRAM address output terminal
45	MA0	Out	2mA	SDRAM address output terminal(LSB)
46	MA8	Out	2mA	SDRAM address output terminal
47	MA10	Out	2mA	SDRAM address output terminal
48	VDD3	P	-	VDD for IO (3.3V)
49	MA9	Out	2mA	SDRAM address output terminal
50	MA11	Out	2mA	SDRAM address output terminal(MSB)
51	GND	P	-	Digital Ground
52	RAS	Out	2mA	SDRAM Row Address Strobe Command output terminal
53	MCLK	Out	4mA	SDRAM Clock output terminal (54MHz)
54	CAS	Out	2mA	SDRAM Column Address Strobe Command output terminal
55	WE	Out	2mA	SDRAM Write Enable output terminal
56	VDD3	P	-	VDD for IO (3.3V)
57	MD8	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
58	MD7	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
59	MD9	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
60	PDOEN	In	LVTTL	Image port D input and output setting input terminal (L: input, H: output)
61	GND	P	-	Digital Ground
62	GND	P	-	Digital Ground
63	MD6	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
64	MD10	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
65	VDD3	P	-	VDD for IO (3.3V)
66	MD5	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
67	MD11	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
68	MD4	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
69	MD12	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
70	MD3	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
71	MD13	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
72	GND	P	-	Digital Ground
73	VDD3	P	-	VDD for IO (3.3V)
74	MD2	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
75	MD14	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
76	MD1	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
77	MD15	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
78	MD0	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal(LSB)
79	VDD2	P	-	VDD for Core (2.5V)
80	VDD3	P	-	VDD for IO (3.3V)
81	VDD3	P	-	VDD for IO (3.3V)
82	GND	P	-	Digital Ground
83	MD16	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal

Pin No.	Name	I/O/P	Attribute	Functional Description
84	MD17	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
85	MD18	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal
86	MD19	Inout	LVTTL, 2mA, Pullup	SDRAM data input-output terminal(MSB)
87	GND	P	-	Digital Ground
88	AGND	P	-	Ground for DAC
89	DAO_Y	Out	-	Analog video-out (Y)
90	AVDD2	P	-	VDD for DAC (2.5V)
91	DAO_Cb	Out	-	Analog video-out (Cb)
92	AGND	P	-	Ground for DAC
93	DAO_Cr	Out	-	Analog video-out (Cr)
94	AVDD2	P	-	VDD for DAC (2.5V)
95	VREF	In	-	DAC reference voltage input terminal
96	FSADJ	Inout	-	An ohms connection terminal for DAC peak swing setting
97	AVDD2	P	-	VDD for DAC (2.5V)
98	VG	Out	-	A volume connection terminal for gate voltage compensation of a DAC electric current cell
99	AGND	P	-	Ground for DAC
100	GND	P	-	Digital Ground
101	GND	P	-	Digital Ground
102	GND	P	-	Digital Ground
103	GND	P	-	Digital Ground
104	CLMP	Out	2mA	Clamp pulse output terminal
105	TEST0	In	LVTTL	Test exclusive use input terminal
106	TEST1	In	LVTTL	Test exclusive use input terminal
107	TEST2	In	LVTTL	Test exclusive use input terminal
108	TEST3	In	LVTTL	Test exclusive use input terminal
109	TEST4	In	LVTTL	Test exclusive use input terminal
110	SPR0	Out	2mA	Serial-to-parallel conversion output terminal(LSB)
111	SPR1	Out	2mA	Serial-to-parallel conversion output terminal
112	VDD3	P	-	VDD for IO (3.3V)
113	SPR2	Out	2mA	Serial-to-parallel conversion output terminal
114	SPR3	Out	2mA	Serial-to-parallel conversion output terminal
115	SPR4	Out	2mA	Serial-to-parallel conversion output terminal
116	SPR5	Out	2mA	Serial-to-parallel conversion output terminal
117	GND	P	-	Digital Ground
118	SPR6	Out	2mA	Serial-to-parallel conversion output terminal
119	SPR7	Out	2mA	Serial-to-parallel conversion output terminal(MSB)
120	VDD3	P	-	VDD for IO (3.3V)
121	VDD2	P	-	VDD for Core (2.5V)
122	GND	P	-	Digital Ground
123	PB0	Inout	LVTTL, leakage, 2mA	Image data I/O port B(LSB)
124	PB1	Inout	LVTTL, leakage, 2mA	Image data I/O port B
125	PB2	Inout	LVTTL, leakage, 2mA	Image data I/O port B
126	PB3	Inout	LVTTL, leakage, 2mA	Image data I/O port B
127	VDD3	P	-	VDD for IO (3.3V)
128	PB4	Inout	LVTTL, leakage, 2mA	Image data I/O port B

Pin No.	Name	I/O/ P	Attribute	Functional Description
129	PB5	Inout	LVTTL, leakage, 2mA	Image data I/O port B
130	GND	P	-	Digital Ground
131	PB6	Inout	LVTTL, leakage, 2mA	Image data I/O port B
132	PB7	Inout	LVTTL, leakage, 2mA	Image data I/O port B
133	PB8	Inout	LVTTL, leakage, 2mA	Image data I/O port B
134	PB9	Inout	LVTTL, leakage, 2mA	Image data I/O port B(MSB)
135	PBOEN	In	LVTTL	Image port B input and output setting input terminal (L: input, H: output)
136	VDD3	P	-	VDD for IO (3.3V)
137	PC0	Out	2mA	Image data I/O port C(LSB)
138	PC1	Out	2mA	Image data I/O port C
139	PC2	Out	2mA	Image data I/O port C
140	PC3	Out	2mA	Image data I/O port C
141	GND	P	-	Digital Ground
142	GND	P	-	Digital Ground
143	PC4	Out	2mA	Image data I/O port C
144	PC5	Out	2mA	Image data I/O port C
145	VDD3	P	-	VDD for IO (3.3V)
146	PC6	Out	2mA	Image data I/O port C
147	PC7	Out	2mA	Image data I/O port C
148	PC8	Out	2mA	Image data I/O port C
149	PC9	Out	2mA	Image data I/O port C(MSB)
150	GND	P	-	Digital Ground
151	CSB	In	Schmitt	MPU Interface chip select input terminal
152	SDA	In	Schmitt	MPU Interface data entry terminal
153	SCL	In	Schmitt	MPU Interface clock input terminal
154	SRN	In	Schmitt	System reset input terminal
155	CKIPOL	In	LVTTL	System clock polarity setting input terminal
156	PLL_VDD	P	-	VDD of PLL exclusive use (2.5V)
157	CPOUT	Out	Analog	Analog output terminal from PLL charge pump
158	VCOIN	In	Analog	Analog input terminal from PLL outside charge account loop filter
159	PLL_GND	P	-	Ground of PLL exclusive use
160	VDD3	P	-	VDD for IO (3.3V)

Q601 : CXD2753R

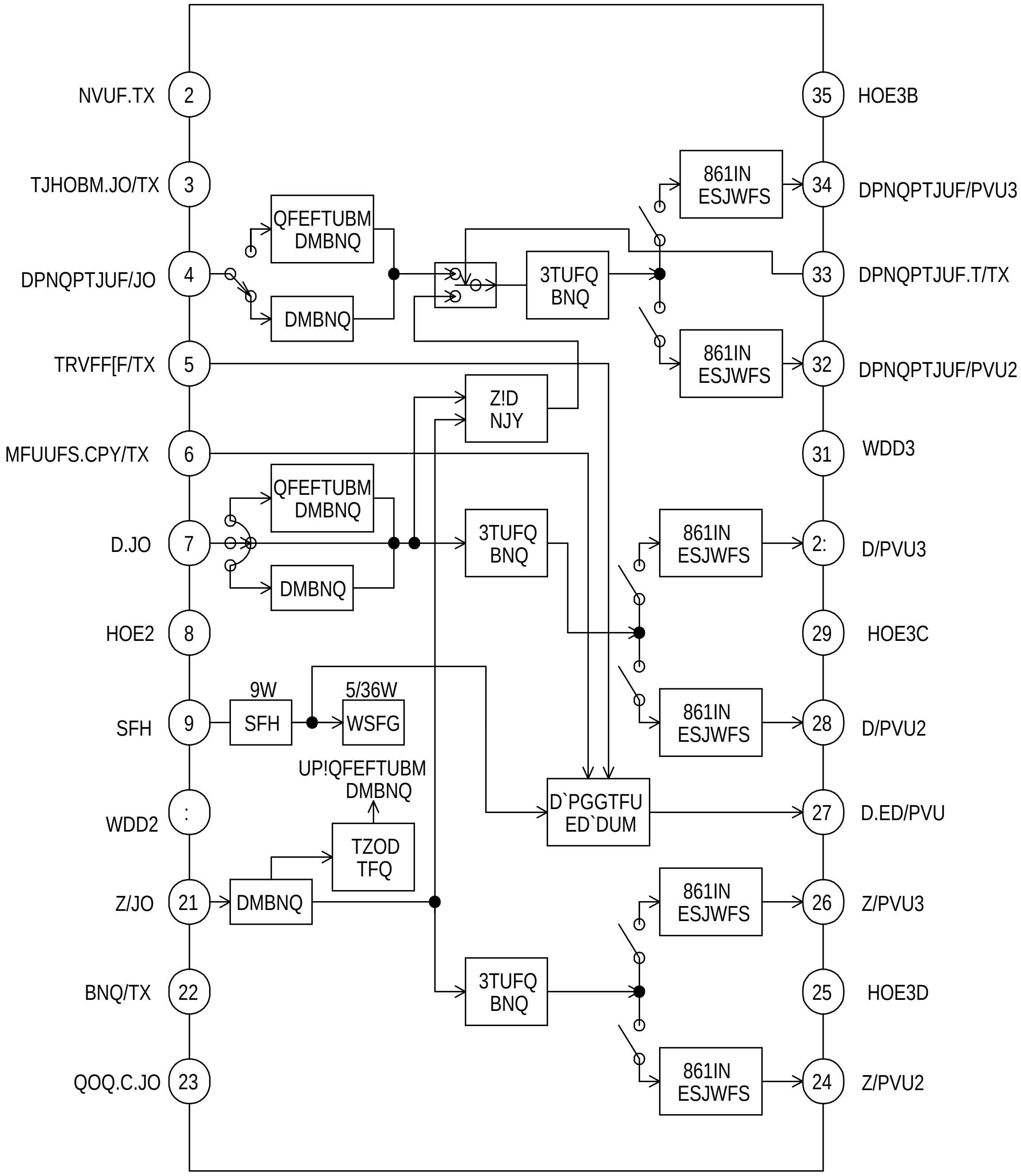
No.	Pin Name	I/O	Pin Function
1	VSC	-	Ground terminal for core
2	XMSLAT	I	Latched input terminal for microcomputer serial communication
3	MSCK		Shift clock input terminal for microcomputer serial communication
4	MSDAI		Data entry terminal for microcomputer serial communication
5	VDC	-	Power supply terminal for core
6	MSDATO	O	Data output terminal for microcomputer serial communication
7	MSREADY		Output preparation completion flag for microcomputer serial communication
8	XMSDOE		Output enable terminal for microcomputer serial communication
9	XRST	I	Reset terminal resets the whole IC with "L".
10	SMUTE	Ipd	Software mute removes audio out with "L" with "H" a soft mute terminal.
11	MCKI	I	Master clock input terminal
12	VSIO	-	Ground terminal for I/O
13	EXCKO1	O	Outside output clock terminal 1
14	EXCKO2		Outside output clock terminal 2
15	LRCK		1Fs (44.1kHz) clock output terminal
16	FRAME		Frame signal output terminal
17	VDIO	-	Power supply terminal for I/O
18	MNT0	O	Monitor output terminal
19	MNT1		
20	MNT2		
21	MNT3		
22	TESTO		Output terminal for test
23			
24			
25			
26	TCK	I	It is fixation in "L" a clock input terminal for test.
27	TDI	Ipu	Input terminal for test
28	VSC	-	Ground terminal for core
29	TDO	O	Output terminal for test
30	TMS	Ipu	Input terminal for test
31	TRST		Reset terminal for test
32	TEST1	I	It is fixation in "L" a clock input terminal for test.
33	TEST2		
34	TEST3		
35	VDC	-	Power supply terminal for core
36	TESTO	O	Output terminal for test
37	XBIT		DST connection monitor terminal
38	SUPDT0		Supplementary data output terminal (LSB)
39	SUPDT1		Supplementary data output terminal
40	SUPDT2		
41	SUPDT3		
42	VSIO	-	Ground terminal for I/O
43	SUPDT4	O	Supplementary data output terminal
44	SUPDT5		
45	VDIO	-	Power supply terminal for I/O
46	SUPDT6	O	Supplementary data output terminal
47	SUPDT7		Supplementary data output terminal (MSB)
48	XSUPAK		Supplementary data output terminal
49	VSC	-	Ground terminal for core
50	TESTO	O	Output terminal for test

No.	Pin Name	I/O	Pin Function
51	TESTI	I	It is fixation in "L" a test input terminal.
52			
53	TESTO	O	Output terminal for test
54	VDC	-	Power supply terminal for core
55	DSADML	O	DSD data output terminal for Lch Down Mix
56	DSADMR		DSD data output terminal for Rch Down Mix
57	BCKASL	I	Input and output choice terminal of a 1 bit clock for DSD data output.L= input (slave), H = output (master).
58	VSDSD	-	Ground terminal for DSD data output
59	BCKAI	I	Bit clock input terminal for DSD data output
60	BCKAO	O	Bit clock output terminal for DSD data output
61	PHREFI	I	Phase reference signal input terminal for DSD output phase modulation
62	PHREFO	O	Phase reference signal output terminal for DSD output phase modulation
63	ZDFL		Zero Lch data search flag
64	DSAL		DSD data output terminal for Lch loud speaker
65	ZDFR		Zero Rch data search flag
66	DSAR		DSD data output terminal for Rch loud speaker
67	VDDSD	-	Power supply Mizuko for DSD data output
68	ZDFC	O	Zero Cch data search flag
69	DSAC		DSD data output terminal for Cch loud speaker
70	ZDFLFE		Zero LFEch data search flag
71	DSASW		DSD data output terminal for SWch loud speaker
72	VSDSD	-	Ground terminal for DSD data output
73	ZDFLS	O	Zero LSch data search flag
74	DSALS		DSD data output terminal child for LSch loud speaker
75	ZDFRS		Zero RSch data search flag
76	DSARS		DSD data output terminal for RSch loud speaker
77	VDDSD	-	Power supply Mizuko for DSD data output
78	IOUT0	O	Data output terminal 0 for IEEE1394 link tip I/F
79	IOUT1		Data output terminal 1 for IEEE1394 link tip I/F
80	VSC	-	Ground terminal for core
81	IOUT2	O	Data output terminal 2 for IEEE1394 link tip I/F
82	IOUT3		Data output terminal 3 for IEEE1394 link tip I/F
83	VDC	-	Power supply terminal for co
84	IOUT4	O	Data output terminal 4 for IEEE1394 link tip I/F
85	IOUT5		Data output terminal 5 for IEEE1394 link tip I/F
86	VSIO	-	Ground terminal for I/O
87	IANCO	O	Transmission information data output terminal for IEEE1394 link tip I/F
88	IFULL	I	Data transmission hold demand signal input terminal for IEEE1394 link tip I/F
89	IEMPTY		High speed transmission demand signal input terminal for IEEE1394 link tip I/F
90	VDIO	-	Power supply terminal for I/O
91	IFRM	O	Frame reference signal output Mizuko for IEEE1394 link tip I/F
92	IOUTE		Enable signal output terminal for IEEE1394 link tip I/F
93	IBCK		Data transmission clock output terminal for IEEE1394 link tip I/F
94	VSC	-	Ground terminal for core
95	TESTI	I	It is fixation in "H" a test input terminal.
96			It is fixation in "L" a test input terminal.
97		Ipu	It is fixation in "H" a test input terminal.
98	TESTO	O	Output terminal for test
99	VDC	-	Power supply terminal for co
100	TESTI	I	It is fixation in "L" a test input terminal.

No.	Pin Name	I/O	Pin Function
101	TESTI	I	It is fixation in "L" a test input terminal.
102			
103			
104			
105			
106	VSIO	-	Ground terminal for I/O
107	TESTI	I	It is fixation in "L" a test input terminal.
108			
109			
110	VDIO	-	Power supply terminal for I/O
111	WAD0	I	Outside A/D data entry terminal for PSP Physical Disc Mark search (LSB)
112	WAD1		Outside A/D data entry terminal for PSP Physical Disc Mark search
113	WAD2		
114	WAD3		
115	VSIO	-	Ground terminal for I/O
116	VSC	-	Ground terminal for core
117	WAD4	I	Outside A/D data entry terminal for PSP Physical Disc Mark search
118	WAD5		
119	WAD6		
120	WAD7		Outside A/D data entry terminal for PSP Physical Disc Mark search (MSB)
121	VDC	-	Power supply terminal for core
122	TESTI	I	It is fixation in "L" a test input terminal.
123	WCK		Movement clock for PSP Physical Disc Mark search
124	WAVDD	-	A/D power supply terminal for PSP Physical Disc Mark search
125			
126	WARFI	Ai	Analog RF signal input terminal for PSP Physical Disc Mark search
127	WAVRB		A/D bottom reference terminal for PSP Physical Disc Mark search
128	WAVSS	-	A/D ground terminal for PSP Physical Disc Mark search
129			
130	VSIO	-	Ground terminal for I/O
131	DQ7	I/O	SDRAM data input-output terminal (MSB)
132	DQ6		SDRAM data input-output terminal
133	DQ5		
134	DQ4		
135	VDIO	-	Power supply terminal for I/O
136	DQ3	I/O	SDRAM data input-output terminal
137	DQ2		
138	DQ1		
139	DQ0		SDRAM data input-output terminal (LSB)
140	VSIO	-	Ground terminal for I/O
141	DCLK	O	Clock output terminal for SDRAM
142	DCKE		Clock enable output terminal for SDRAM
143	XWE		Wright enable output terminal for SDRAM
144	XCAS		Column address strobe output terminal for SDRAM
145	XRAS		Row address strobe output terminal for SDRAM
146	VDIO	-	Power supply terminal for I/O
147	TESTO	O	Output terminal for test
148	A11		Address output terminal for SDRAM (MSB)
149	A10		Address output terminal for SDRAM
150	VSC	-	Ground terminal for core

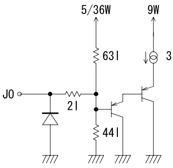
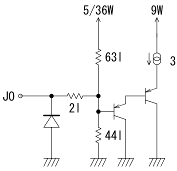
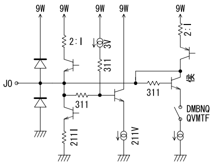
No.	Pin Name	I/O	Pin Function
151	A9	O	Address output terminal for SDRAM
152	A8		
153	VDC	-	Power supply terminal for core
154	A7	O	Address output terminal for SDRAM
155	A6		
156	A5		
157	A4		
158	VSIO	-	Ground terminal for I/O
159	A3	O	Address output terminal for SDRAM
160	A2		
161	A1		
162	A0		Address output terminal for SDRAM (LSB)
163	VDIO	-	Power supply terminal for I/O
164	XSRQ	O	Data request output terminal to input into a front end processor
165	XSHD	I	Input terminal of a header flag output by a front end processor
166	SDCK		Input terminal of a data carrier clock output by a front end processor
167	XSAK		Input terminal of data partial response flag output by a front end processor
168	SDEF		Input terminal of error flag output by a front end processor
169	SD0		The stream data input terminal which is output by a front end processor (LSB)
170	SD1		The stream data input terminal which is output by a front end processor
171	SD2		
172	SD3		
173	SD4		
174	SD5		
175	SD6		
176	SD7		The stream data input terminal which is output by a front end processor (MSB)

Ipu : Pull-up input, Ipd : Pull-down input, Ai : Analog input

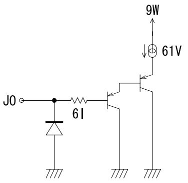
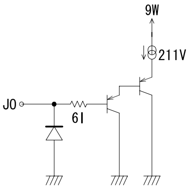
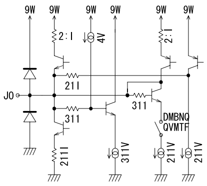

NVUF.TX
2
35
HOE3B
TJHOBM.JO/TX
3
861IN
ESJWFS
34
DPNQPTJUF/PVU3
QFEFTUBM
DMBNQ
DPNQPTJUF/JO
4
3TUFQ
BNQ
33
DPNQPTJUF.T/TX
DMBNQ
TRVFF[F/TX
5
861IN
ESJWFS
32
DPNQPTJUF/PVU2
Z!D
NJY
MFUUFS.CPY/TX
6
31
WDD3
QFEFTUBM
DMBNQ
D.JO
7
3TUFQ
BNQ
861IN
ESJWFS
2:
D/PVU3
DMBNQ
HOE2
8
29
HOE3C
9W
5/36W
SFH
9
SFH
WSFG
861IN
ESJWFS
28
D/PVU2
UP!QFEFTUBM
DMBNQ
WDD2
:
D`PGGTFU
ED`DUM
27
D.ED/PVU
TZOD
TFQ
Z/JO
21
DMBNQ
861IN
ESJWFS
26
Z/PVU3
BNQ/TX
22
3TUFQ
BNQ
25
HOE3D
QOQ.C.JO
23
861IN
ESJWFS
24
Z/PVU2

入出力形態図 / Input/output form diagram

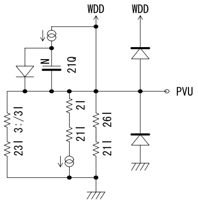
記号の単位　抵抗/Resistance：Ω

Pin No.	名称 Pin Name	I/O	端子 電圧	入出力 ｲﾝﾋﾟｰﾀﾞﾝｽ	等価回路 Equivalent Circuit	端子説明 Terminal Explanation
1	MUTE-SW	I	1.7V	21k•		映像信号出力 (13,17,21/15,19,23pin)のミュート制御端子です。 3.3～5.0V電源のマイコンでコントロールが可能です。 Mute control pin for video signal outputs (13,17,21/15,19,23pin). Control can be made with a microcomputer operating on 3.3～5.0 V power supply.
2	SIGNAL. IN-SW	I	1.7V	21k•		入力信号の種類(コンポジット・S/コンポーネント/ベースバンド)に合せて、３ピン及び６ピンの入力形態を切替える端子です。 3.3～5.0V電源のマイコンでコントロールが可能です。 外付けに“5.1kΩ”の抵抗をシリーズに付加して下さい。 Pin to select the input form of pins 3 and 6 according to the type of input signal (composite/s /component/ base band). Control can be made with a microcomputer operating on 3.3～5.0 V power supply. Add a 5.1kΩ resistor in series externally.
3	COMPOSITE -IN	I	4.5V	Clamp form	 9W 9W 9W 9W 9W 2:I 3V 311 2:I J0 311 311 DMBNQ QVMTF 211I 211V	映像信号入力端子です。 コンポジット/Ｓ信号入力時にはコンポジット信号を、コンポーネント信号入力時にはB-Y又はR-Y信号を入力して下さい。 ベースバンド入力時には、同期信号のあるＲＧＢ信号のどれかを入力して下さい。(Ｓ信号入力時は、このピンはＧＮＤに落ちます。) Video signal input pin. Enter the composite signal for input of the composite/S signal. Enter the B-Y or R-Y signal for input of the component signal. For input of the base band, enter any of RGB signals that have a sync signal. (This pin is connected to GND when the S signal is entered.)

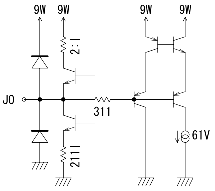
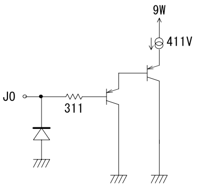
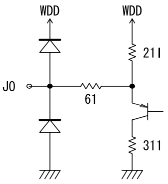
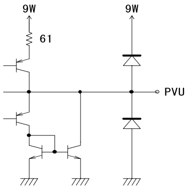
記号の単位　抵抗/Resistance：Ω

Pin No.	名称 Pin Name	I/O	端子 電圧	入出力 ｲﾝﾋﾟｰﾀﾞﾝｽ	等価回路 Equivalent Circuit	端子説明 Terminal Explanation
4	SQUEEZE-SW	I	2.4V	9.0GΩ		スクイーズ情報を入力する端子です。 3.3～5.0V電源のマイコンでコントロールが可能です。 Pin to enter the squeeze information. Control can be made with a microcomputer that operates on 3.3～5.0 V power supply.
5	LETTER-BOX-SW	I	2.43V	8.1GΩ		レターボックス情報を入力する端子です。 3.3～5.0V電源のマイコンでコントロールが可能です。 Pin to enter the letter box information. Control can be made with a microcomputer that operates on 3.3～5.0 V power supply.
6	C-IN	I	4.8V	10k•	 9W 9W 9W 9W 9W 9W 2:I 4V 2:I J0 21I 311 311 DMBNQ QVMTF 211I 311V 211V 211V	映像信号入力端子です。 コンポジット/Ｓ信号入力時にはクロマ信号を入力して下さい。コンポーネント信号入力時にはB-Y又はR-Y信号を入力して下さい。 ベースバンド信号入力時には、同期信号のあるＲＧＢ信号のどれかを入力して下さい。 Video signal input pin. Enter the chroma signal for input of composite/S signal. Enter the B-Y or R-Y signal for input of the component signal input. For input of the base band signal, enter any of RGB signals that have a sync signal.
7	GND1	P	0V			信号処理回路用のＧＮＤです。 GND for the signal processing circuit.

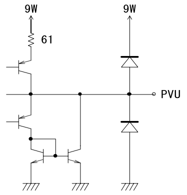
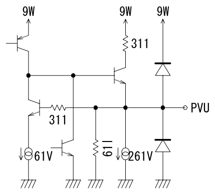
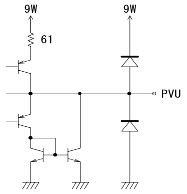
記号の単位　抵抗/Resistance：Ω

Pin No.	名称 Pin Name	I/O	端子 電圧	入出力 ｲﾝﾋﾟｰﾀﾞﾝｽ	等価回路 Equivalent Circuit	端子説明 Terminal Explanation
8	REG	O	8V	1.5k•	 WDD WDD 21Q PVU 23I 3:/3I 2I 21I 26I 21I	ＩＣ内の８Ｖ電源電圧を作るレギュレータ用の端子です。 電源電圧１２Ｖで使用する際には、外付けＰＮＰトランジスタのコレクタを接続して下さい(TEST CURCUIT A参照)。 「ＩＣ内のノイズはレギュレータの安定度に左右されるので、Y/C-MIX以外でS/Nを-80dB確保したい場合は、470μFのコンデンサを付ける事を推奨します。 Y/C-MIX時にS/Nを-74dB確保したい場合は、電源電圧を8V(VCCB)で使用し、当ピンにも8Vを加えて下さい(TEST CURCUIT B参照)。」 Pin for the regulator that generates an 8 V supply voltage in IC. To use the supply voltage of 12 V, connect a collector of the external PNP transistor (see the test circuit A). Since the noise in IC is dependent on the stability of regulator, it is recommended to connect a ４７０μＦ capacitor when the S/N ratio of -80 dB is to be secured for controls other than Y/C-MIX. To secure the S/N ratio of -74 dB for Y/C-MIX, set the supply voltage to 8 V (VCCB) and apply 8 V also to this pin. (See the test circuit B.)
9	VCC1	P	12V OR 8.0V			信号処理回路用のＶＣＣです。 電源電圧を12Vで使用する際には、外付けＰＮＰトランジスタのエミッタを接続して下さい(TEST CURCUIT A参照)。７ピンとの間に47μF程度のコンデンサを入れて下さい。 VCC for a signal processing circuit. To use the supply voltage of 12 V, connect an emitter of external PNP transistor (see the test circuit A). Insert a capacitor of around 47μF between this VCC and pin 7.

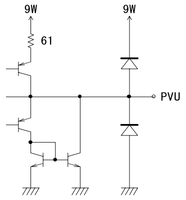
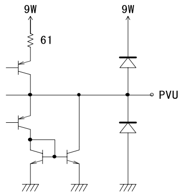
記号の単位　抵抗/Resistance：Ω

Pin No.	名称 Pin Name	I/O	端子 電圧	入出力 ｲﾝﾋﾟｰﾀﾞﾝｽ	等価回路 Equivalent Circuit	端子説明 Terminal Explanation
10	Y-IN	I	4.2V	Clamp form		映像信号入力端子です。 コンポジット/Ｓ及びコンポーネント信号入力時にはＹ信号を、ベースバンド信号入力時には同期信号のあるＲＧＢ信号のどれかを入力して下さい。 Video signal input pin. Enter the Y signal for input of composite/S and component signal. For input of the base band signal, enter any of RGB signals that have a sync signal.
11	AMP-SW	I	2.4V	9.0GΩ		入力信号の振幅に合せてＡＭＰゲインを切替える制御端子です。 3.3～5.0V電源のマイコンでも、基板上でのVCC/GND切替えでもコントロールが可能です。 Control pin to select the AMP gain according to the input signal amplitude. Control is possible with a microcomputer that operates on 3.3～5.0 V power supply as well as through selection of VCC/GND on a substrate.
12	PNP-B-IN	O	3.4V	4.0GΩ		8Vレギュレータ用外付けＰＮＰトランジスタのベース入力端子です。 電源電圧12V時にはトランジスタに接続して下さい(TEST CURCUIT A参照)。 電源電圧を8Vで使用する際にはオープンにして下さい(TEST CURCUIT B参照)。 Base input pin of the external PNP transistor for the 8 V regulator. Connect to the transistor in case of the supply voltage of 12 V (see the test circuit A). To use the supply voltage of 8 V, keep this pin open (see the test circuit B).
13	Y.OUT1	O	2.7V	11.6Ω		映像信号出力端子です。 １０ピンに入力された映像信号を７５Ωでドライブします。ミュート機能あり。 Video signal output pin. Drives the video signal entered in pin 10 by ７５Ω. Mute function available.

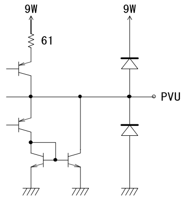
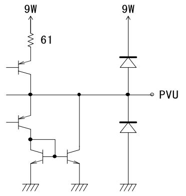
記号の単位　　抵抗/Resistance：Ω

Pin No.	名称 Pin Name	I/O	端子 電圧	入出力 ｲﾝﾋﾟｰﾀﾞﾝｽ	等価回路 Equivalent Circuit	端子説明 Terminal Explanation
14	GND2	P	0V		7	５Ωドライブ回路(13ピン及び15ピン)のＧＮＤです。出力信号の振幅が大きいので、レイアウトには十分注意して下さい。 GND of the ７５Ω drive circuit (pins 13 and 15). Pay due attention on the layout because the output signal has a substantial amplitude.
15	Y.OUT2	O	2.7V	11.6Ω		映像信号出力端子です。 １０ピンに入力された映像信号を７５Ωでドライブします。ミュート機能あり。 Video signal output pin. Drives the video signal entered in pin 10 by ７５Ω. The mute function available.
16	C-DC.OUT	O	4.7V	4.1Ω		S1/S2用ＤＣ電圧出力端子です。 ４：３モード時には0Vを、レターボックス時には2.2Vを、スクイーズモード時には5Vを出力します。 クロマ信号出力を容量結合した後に10k• の抵抗で接続して下さい。 S1/S2 DC voltage output pin. Outputs 0 V for the 4:3 mode, 2.2 V for the letter box mode, and 5 V for the squeeze mode. Connect with a 10k• resistor after capacitive coupling of chroma signal output.
17	C.OUT1	O	3.9V	11.6Ω		映像信号出力端子です。 ６ピンに入力された映像信号を７５Ωでドライブします。１ピンによりミュート可能です。 Video signal output pin. Drives the video signal entered in pin 6 by ７５Ω. Mute possible with pin 1.

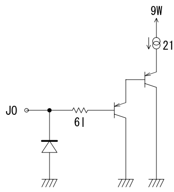
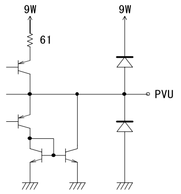
記号の単位　　抵抗/Resistance：Ω

Pin No.	名称 Pin Name	I/O	端子 電圧	入出力 ｲﾝﾋﾟｰﾀﾞﾝｽ	等価回路 Equivalent Circuit	端子説明 Terminal Explanation
18	GND2B	P	0V		7	５Ωドライブ回路(17ピン及び19ピン)のＧＮＤです。出力信号の振幅が大きいので、レイアウトには十分注意して下さい。 GND of the ７５Ω drive circuit (pins 17 and 19). Pay due attention to the layout because the output signal has a substantial amplitude.
19	C.OUT2	O	3.9V	11.6Ω		映像信号出力端子です。 ６ピンに入力された映像信号を７５Ωでドライブします。１ピンでミュート可能です。 Video signal output pin. Drives the video signal entered in Pin 6 by ７５Ω. Mute possible with pin 1.
20	VCC2	P	8V			７５Ωドライブ回路用のＶCCです。 ７５Ωドライブ回路のＧＮＤとの間に47μF程度のコンデンサを入れて下さい。 出力信号の振幅が大きいので、レイアウトには十分注意して下さい。 VCC for the ７５Ω drive circuit. Insert a capacitor of around 47μF between this VCC and GND of the ７５Ω drive circuit. Pay due attention to the layout because the output signal has a substantial amplitude.
21	COMPOSITE. OUT1	O	3.57V	11.6Ω		映像信号出力端子です。 ３ピンに入力された映像信号を７５Ω駆動します。 １ピンでミュート可能です。 Video signal output pin. Video signal entered in pin 3 is driven by ７５Ω. Mute possible with pin 1.

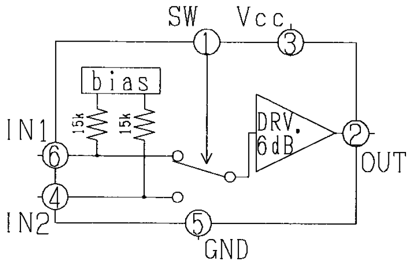
記号の単位　　抵抗/Resistance：Ω

Pin No.	名称 Pin Name	I/O	端子 電圧	入出力 ｲﾝﾋﾟｰﾀﾞﾝｽ	等価回路 Equivalent Circuit	端子説明 Terminal Explanation
18	GND2B	P	0V		7	５Ωドライブ回路(17ピン及び19ピン)のＧＮＤです。出力信号の振幅が大きいので、レイアウトには十分注意して下さい。 GND of the ７５Ω drive circuit (pins 17 and 19). Pay due attention to the layout because the output signal has a substantial amplitude.
19	C.OUT2	O	3.9V	11.6Ω		映像信号出力端子です。 ６ピンに入力された映像信号を７５Ωでドライブします。１ピンでミュート可能です。 Video signal output pin. Drives the video signal entered in Pin 6 by ７５Ω. Mute possible with pin 1.
20	VCC2	P	8V			７５Ωドライブ回路用のＶCCです。 ７５Ωドライブ回路のＧＮＤとの間に47μF程度のコンデンサを入れて下さい。 出力信号の振幅が大きいので、レイアウトには十分注意して下さい。 VCC for the ７５Ω drive circuit. Insert a capacitor of around 47μF between this VCC and GND of the ７５Ω drive circuit. Pay due attention to the layout because the output signal has a substantial amplitude.
21	COMPOSITE. OUT1	O	3.57V	11.6Ω		映像信号出力端子です。 ３ピンに入力された映像信号を７５Ω駆動します。 １ピンでミュート可能です。 Video signal output pin. Video signal entered in pin 3 is driven by ７５Ω. Mute possible with pin 1.

記号の単位　　抵抗/Resistance：Ω

Pin No.	名称 Pin Name	I/O	端子 電圧	入出力 ｲﾝﾋﾟｰﾀﾞﾝｽ	等価回路 Equivalent Circuit	端子説明 Terminal Explanation
22	COMPOSITE -S.SW	I	2.4V	9.0GΩ		Y/C-MIXのON/OFFを制御する端子です。 ２ピンの制御がコンポジット/Ｓ時以外の場合は、必ずこのピンはＨｉｇｈにして下さい。 3.3～5.0V電源のマイコンでも、基板上でのVCC/GND切替えでも制御可能です。 Y/C-MIX ON/OFF control pin. Be sure to set this pin HIGH in cases other than composite/S control of pin 2. Control is possible with a microcomputer operating on 3.3～5.0V power supply or through selection of VCC/GND on the substrate.
23	COMPOSITE. OUT2	O	3.57V	11.6Ω		映像信号出力端子です。 ３ピンに入力された映像信号を７５Ωで駆動します。 １ピンでミュート可能です。 Video signal output pin. Drives the video signal entered in pin 3 by ７５Ω. Mute possible with pin 1
24	GND2A	P	0V			７５Ωドライブ回路(２１ピン及び２３ピン)のＧＮＤです。 出力信号の振幅が大きいので、レイアウトには十分注意して下さい。 GND of the ７５Ω drive circuit (pins 21 and 23). Pay due attention on the layout because the output signal has a substantial amplitude.

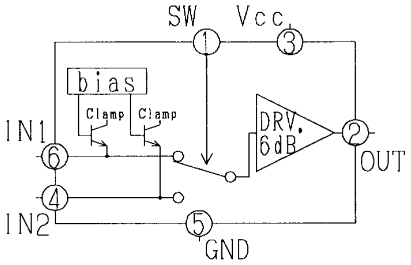
Q859 : MM1506XNRE



制御入力真理値表
Truth table

SW	OUT
L	IN1
H	IN2

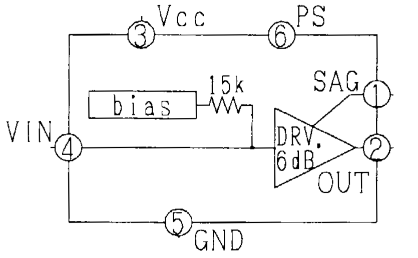
Q860 : MM1508XNRE



制御入力真理値表
Truth table

SW	OUT
L	IN1
H	IN2

Q853/Q856/Q861 : MM1509XNRE

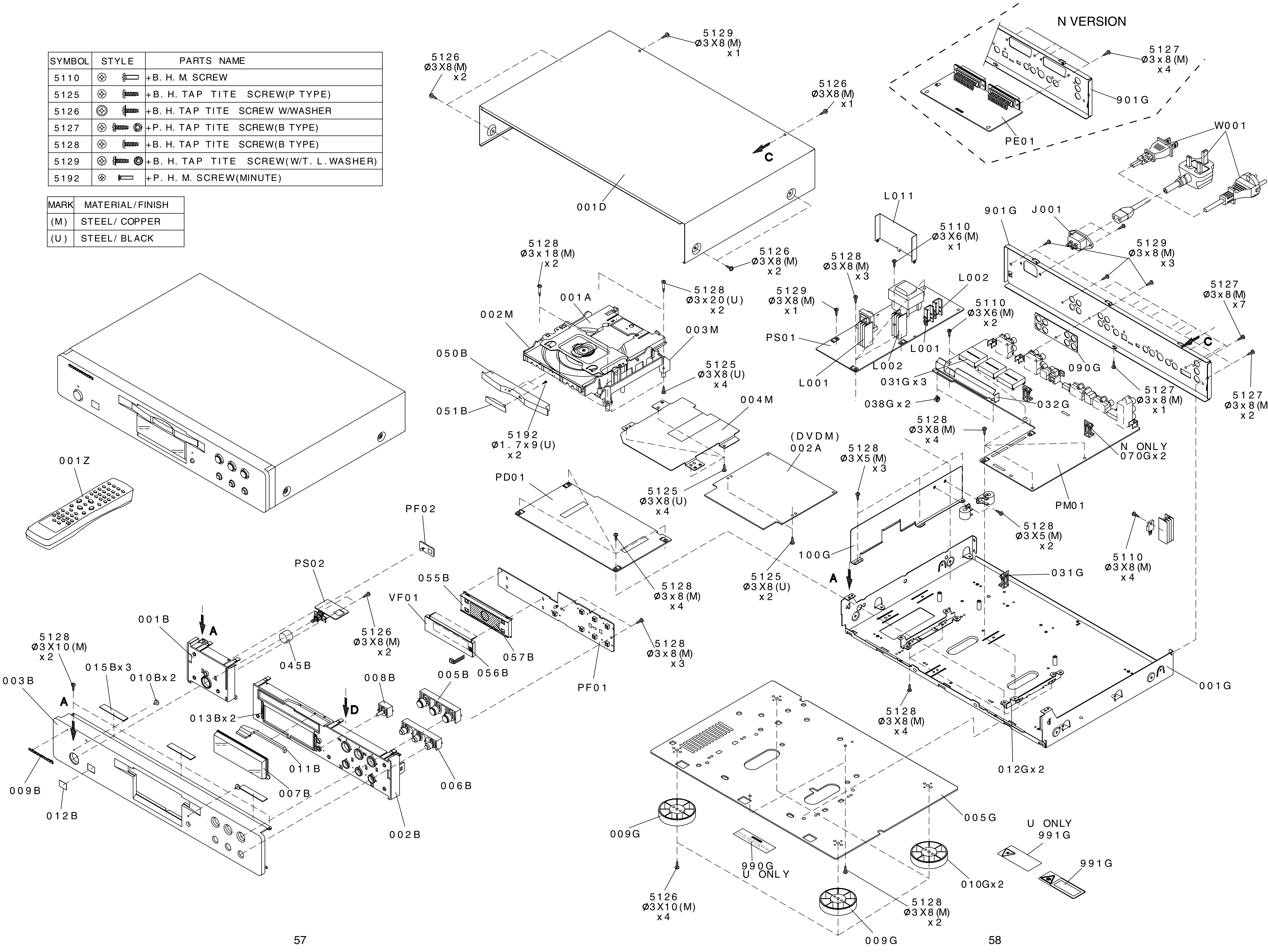


PS端子 PS-Pin	パワーセーブ Power-save
L	ON
H	OFF

13. EXPLODED VIEW AND PARTS LIST

SYMBOL	STYLE	PARTS NAME
5110		+B. H. M. SCREW
5125		+B. H. TAP TITE SCREW(P TYPE)
5126		+B. H. TAP TITE SCREW W/WASHER
5127		+P. H. TAP TITE SCREW(B TYPE)
5128		+B. H. TAP TITE SCREW(B TYPE)
5129		+B. H. TAP TITE SCREW(W/T. L. WASHER)
5192		+P. H. M. SCREW(MINUTE)

MARK	MATERIAL/FINISH
(M)	STEEL/ COPPER
(U)	STEEL/ BLACK


N VERSION
5129 Ø3X8(M) x1
5126 Ø3X8(M) x2
5126 Ø3X8(M) x1
C
5127 Ø3x8(M) x4
901G
PE01
W001
001D
L011
901G
J001
5110 Ø3X6(M) x1
5129 Ø3x8(M) x3
5126 Ø3X8(M) x2
5128 Ø3x18(M) x2
5128 Ø3X8(M) x3
5128 Ø3x20(U) x2
5129 Ø3X8(M) x1
L002
5110 Ø3X6(M) x2
5127 Ø3x8(M) x7
001A
002M
003M
PS01
C
050B
5125 Ø3X8(U) x4
L001
L002
L001
031Gx3
090G
5127 Ø3x8(M) x1
5127 Ø3x8(M) x2
038Gx2
032G
051B
5192 Ø1.7x9(U) x2
004M
5128 Ø3X8(M) x4
(DVDM) 002A
5128 Ø3X5(M) x3
N ONLY 070Gx2
001Z
PD01
5125 Ø3X8(U) x4
PM01
PF02
5128 Ø3X5(M) x2
5110 Ø3X8(M) x4
100G
PS02
5125 Ø3X8(U) x2
031G
A
055B
VF01
5128 Ø3x8(M) x4
001B
A
5128 Ø3X10(M) x2
5126 Ø3X8(M) x2
5128 Ø3x8(M) x3
015Bx3
010Bx2
045B
057B
003B
008B
005B
056B
PF01
001G
A
D
013Bx2
5128 Ø3X8(M) x4
011B
006B
009B
007B
012B
002B
012Gx2
005G
U ONLY 991G
009G
990G U ONLY
991G
010Gx2
5126 Ø3X10(M) x4
5128 Ø3X8(M) x2
009G

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
001A		02AK304500	MECHANISM	02AK304500
			DVD LOADER DB-VLD302	
002A		ZK02AK0210	UNIT KIT DB-VPB305	ZK02AK0210
001B	GOLD	02AK105120	FRONT CHASSIS PL L	02AK105120
001B	BLACK	02AK105020	FRONT CHASSIS PL L	02AK105020
002B	GOLD	02AK105130	FRONT CHASSIS PL R	02AK105130
002B	BLACK	02AK105030	FRONT CHASSIS PL R	02AK105030
003B	GOLD	02AK248110	FRONT PANEL AL	02AK248110
003B	BLACK	02AK248010	FRONT PANEL AL	02AK248010
005B	GOLD	02AK270110	BUTTON FUNCTION	02AK270110
005B	BLACK	02AK270010	BUTTON FUNCTION	02AK270010
006B	GOLD	02AK270120	BUTTON SUB FUNC	02AK270120
006B	BLACK	02AK270020	BUTTON SUB FUNC	02AK270020
007B		02AK158010	WINDOW	02AK158010
008B		02AK270030	BUTTON FL OFF	02AK270030
009B		nsp	BADGE MARANTZ BL	185J251010
010B		230K355030	LENS STANDBY/FL OFF	230K355030
011B		02AK355010	LENS TRAY UPPER	02AK355010
012B	/C/F/L	02AK251010	BADGE SACD GOLD	02AK251010
	/N			
012B	/U		BADGE SACD	02AK251020
045B	GOLD	02AK270140	BUTTON POWER GOLD	02AK270140
045B	BLACK	02AK270040	BUTTON POWER BLACK	02AK270040
050B	GOLD	02AK063110	ESCUTCHEON TRAY FRONT	02AK063110
050B	BLACK	02AK063010	ESCUTCHEON TRAY FRONT	02AK063010
051B		392K063160	ESCUTCHEON SACD	392K063160
009G		383K057010	LEG PORON GOLD	383K057010
			HOT STAMP F	
010G		383K057110	LEG PORON GOLD	383K057110
			HOT STAMP R	
		02AK362010	ADAPTOR MECHA L	02AK362010
002M		02AK362020	ADAPTOR MECHA R	02AK362020
003M		02AK271110	HOLDER MECHA	02AK271110
004M				
⚠ J001		YJ04002550	JACK AC INLET TYPE HF-301	YJ04002550
L007		FC50160030	FERRITE CORE TFCK-16-8-13	FC50160030
L008		FC50230010	FERRITE CORE	FC50230010
L009		FC90400010	FERRITE CORE SSC-40-12	FC90400010
L010		FC50160030	FERRITE CORE TFCK-16-8-13	FC50160030
WD01		nsp	JUMPER LEAD	YU40042510
			PD01-DIGITAL BOARD	
WD02		nsp	JUMPER LEAD PD01-PM01-A	YU30055520
WD03		nsp	JUMPER LEAD PD01-PM01-B	YU30055520
WD04		nsp	JUMPER LEAD PD01-PM01-C	YU30055520
WE01	/N	nsp	JUMPER LEAD PM01-PE01	YU12080520
WF01		nsp	JUMPER LEAD PM01-PF01	YU20155520
WP03		nsp	JUMPER LEAD PS01-PD01	YU30055520

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
			PACKING	
001T	/A/C/L		USER GUIDE	02AK851350
	/S			
001T	/F		USER GUIDE	02AK851110
001T	/N	02AK851310	USER GUIDE	02AK851310
001T	/U		USER GUIDE	02AK851250
005T	/N	02AK851320	USER GUIDE	02AK851320
001Z		ZK02AK0010	REMOTE CONTROLLER	ZK02AK0010
⚠ W001	/C		MAINS CORD SET	ZC02009010
			7A 250V KOREAN	
⚠ W001	/F		MAINS CORD MITY 125V 12A	ZC01802080
⚠ W001	/L		MAINS CORD UL/CSA	ZC01803100
			10A 125V	
⚠ W001	/N	ZC01803080	MAINS CORD 2P	ZC01803080
			10A 250V CLASS2	
⚠ W001	/S		MAINS CORD 250V 10A	ZC01804100
⚠ W001	/A		MAINS CORD	ZC02006050
			250V 10A TESCOM	
			NOT STANDARD	
			SPARE PARTS	
001S			PACKING CASE	02AK801010
002S			CUSHION	386K809010
003Z			CONNECTIVE CORD	ZD01500410
			3PIN RCA VIDEO&L/R 1.5M	
004Z			CONNECTIVE CORD	ZD00900100
			RCA RC-5 CORD 0.9M	

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

14. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R∗∗∗: 1) GD05××× 140, Carbon film fixed resistor, ±5% 1/4W
R∗∗∗: 2) GD05××× 160, Carbon film fixed resistor, ±5% 1/6W
① —— Resistance value

Examples ;
① Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C∗∗∗: CERAMIC CAP.
3) DD1×××× 370, Ceramic capacitor
Disc type
Temp.coeff.P350 ～N1000, 50V
② ③
③ Capacity value
② Tolerance

Examples ;
② Tolerance (Capacity deviation)
±0.25 pF 0
±0.5 pF 1
±5% 5

∗ Tolerance of COMMON PARTS handled here are as follows :
0.5 pF～ 5 pF .... ±0.25 pF
6 pF～ 10 pF .... ±0.5 pF
12 pF～ 560 pF .... ±5%

③ Capacity value

0.5 pF 005	3 pF 030	100 pF 101
1 pF 010	10 pF 100	220 pF 221
1.5 pF 015	47 pF 470	560 pF 561

C∗∗∗ : CERAMIC CAP.
4) DK16××× 300, High dielectric constant ceramic capacitor
Disc type
Temp.chara. 2B4, 50V
④
Capacity value

Examples ;
④ Capacity value

100 pF 101	1000 pF 102	10000 pF 103
470 pF 471	2200 pF 222	

C∗∗∗ : 5) ELECTROLY CAP. (⧣), 6) FILM CAP. (╪)
5) EA×××××× 10, Electrolytic capacitor
One-way lead type, Tolerance ±20%
⑤ ⑥
⑥ Working voltage
⑤ Capacity value

Examples ;
⑤ Capacity value

0.1 μF 104	4.7 μF 475	100 μF 107
0.33 μF 334	10 μF 106	330 μF 337
1 μF 105	22 μF 226	1100 μF 118
		2200 μF 228

⑥ Working voltage

6.3V 006	25V 025
10V 010	35V 035
16V 016	50V 050

6) DF15××× 350 → Plastic film capacitor
DF15××× 310 ┘ One-way type, Mylar ±5% 50V
DF16××× 310 → Plastic film capacitor
One-way type, Mylar ±10% 50V
⑦
Capacity value

Examples ;
⑦ Capacity value

0.001 μF (1000 pF) 102	0.1 μF 104
0.0018 μF 182	0.56 μF 564
0.01 μF 103	1 μF 105
0.015 μF 153	

NOTE : 1) The above CODES (R∗∗∗ , R∗∗∗ , C∗∗∗ , C∗∗∗ and C∗∗∗) are omitted on the schematic diagram in some case.
2) On the occasion, be confirmed the common parts on the parts list.
3) Refer to “Common Parts List” for the other common parts (**RI05**, **DD4**, **DK4**).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

Part No. (MJI)		Type No. (KOA)	Description
NH05××× 140	→	RF25S×××× ΩJ	(±5% 1/4W)
NH05××× 120	→	RF50S×××× ΩJ	(±5% 1/2W)
NH85××× 110	→	RF73B2A×××× ΩJ	(±5% 1/10W)
NH95××× 140	→	RF73B2E×××× ΩJ	(±5% 1/4W)

∗ Resistance value
Resistance value (0.1 Ω – 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)		Type No. (MEC)	Description
NF05××× 140	→	ERD-2FCJ×××	(±5% 1/4W)
RF05××× 140	┘		
NF02××× 140	→	ERD-2FCG×××	(±2% 1/4W)
RF02××× 140	┘		

∗ Resistance value
∗ Resistance value

Examples ;
∗ Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

ABBREVIATION AND MARKS

ANT.	: ANTENNA	BATT.	: BATTERY
CAP.	: CAPACITOR	CER.	: CERAMIC
CONN.	: CONNECTING	DIG.	: DIGITAL
HP	: HEADPHONE	MIC.	: MICROPHONE
μ-PRO	: MICROPROCESSOR	REC.	: RECORDING
RES.	: RESISTOR	SPK	: SPEAKER
SW	: SWITCH	TRANSF.	: TRANSFORMER
TRIM.	: TRIMMING	TRS.	: TRANSISTOR
VAR.	: VARIABLE	X'TAL	: CRYSTAL

NOTE ON FUSE :

Regarding to all parts of parts code **FS20**xxx**2**xx, replace only with Wickmann-Werke GmbH, Type 372 non glass type fuse.

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意：

⚠がついている部品は、安全上重要な部品です。必ず
指定されている部品番号の部品を使用して下さい。

010728MIT

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
			PD01-SACD CIRCUIT BOARD	
			PD01--CAPACITORS	
C601		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C602		nsp	CER. CHIP 0.47µF 16V	DK98474200
C605		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C606 ∫ C611		nsp	CER. CHIP 0.47µF 16V	DK98474200
C612		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C614		nsp	CER. CHIP 0.47µF 16V	DK98474200
C615		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C616		nsp	CER. CHIP 0.47µF 16V	DK98474200
C617		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C618		nsp	CER. CHIP 0.47µF 16V	DK98474200
C619		nsp	CER. CHIP 0.47µF 16V	DK98474200
C620		nsp	CER. CHIP 0.47µF 16V	DK98474200
C621		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C622		nsp	CER. CHIP 0.47µF 16V	DK98474200
C623		nsp	CER. CHIP 0.47µF 16V	DK98474200
C624		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C625		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C626		nsp	CER. CHIP 0.47µF 16V	DK98474200
C627		nsp	CER. CHIP 0.47µF 16V	DK98474200
C632		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
C634		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C635 ∫ C641		nsp	CER. CHIP 0.47µF 16V	DK98474200
C642		nsp	CER. CHIP 1µF 10V F	DK98105200
C646		nsp	CER. CHIP 0.47µF 16V	DK98474200
C647		nsp	CER. CHIP 10pF ±0.5pF 50V	DD91100300
C649		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C650		nsp	CER. CHIP 0.47µF 16V	DK98474200
C651		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C652		nsp	CER. CHIP 0.47µF 16V	DK98474200
C653		nsp	CER. CHIP 0.47µF 16V	DK98474200
C701 ∫ C714		nsp	CER. CHIP 0.1µF	DK98104200
C715		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C716		nsp	CER. CHIP 0.47µF 16V	DK98474200
C717		nsp	TANTL. CHIP 100µF 6.3V	EY10700620
C718		nsp	CER. CHIP 0.47µF 16V	DK98474200
			PD01-RESISTORS	
R601		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R603 ∫ R606		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R607		nsp	CHIP 47Ω ±5% 1/16W	NN05470610
R608		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R609		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R610		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R611		BW05103320	RES.COMPO. 10kΩ X 4 J CN1J KOA	BW05103320
R612		BW05103320	RES.COMPO. 10kΩ X 4 J CN1J KOA	BW05103320
R614		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R616		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R617		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R618		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R619		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R620		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R622		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R624 ∫ R631		nsp	CHIP 22Ω ±5% 1/16W	NN05220610

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
R632 ∫ R639		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R640		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R641		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R642		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R643		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R644		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R645		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R646		nsp	CHIP 47Ω ±5% 1/16W	NN05470610
R647		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R656 ∫ R659		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R660		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R661		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R662		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R663		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R701 ∫ R714		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R715		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R716		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R717		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R718		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R720		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R722		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R723		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R724		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R725		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
R726		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R727		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R730		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R731		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R732		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R734		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R735		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R737		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R738		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R740		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R741		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R742		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R743		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R744		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R745		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R746		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R747		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R748		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R749		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R750		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R751		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R752 ∫ R755		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R756 ∫ R778		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
			PD01-SEMICONDUCTORS	
Q601		HC10081250	IC CXD2753R	HC10081250
Q602		HC10214990	IC 2BANKS X 512K X 16BIT SDRAM	HC10214990
Q603		HC10440050	IC TC7SH08FU	HC10440050
Q604		HC005605K0	IC TC74VHC74FS	HC005605K0
⚠ Q606		HC98J25210	IC BA25BC0FP +2.5V REG.	HC98J25210
Q701		HC010205K0	IC TC7SH32FU	HC010205K0
Q702		HC010205K0	IC TC7SH32FU	HC010205K0
Q703		HC009105K0	IC TC7WH157FU	HC009105K0
Q704		HC007905K0	IC TC7WH74FU D-TYPE F.F	HC007905K0

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
Q705		HC10436050	IC TC7SH86FU	HC10436050
Q706		HC010205K0	IC TC7SH32FU	HC010205K0
Q708		HC010305K0	IC TC7SHU04FU	HC010305K0
Q709		HC010305K0	IC TC7SHU04FU	HC010305K0
Q710		HC010305K0	IC TC7SHU04FU	HC010305K0
Q711		HC005805K0	IC TC74VHC157FS	HC005805K0
Q712		HC005805K0	IC TC74VHC157FS	HC005805K0
Q713		HC005805K0	IC TC74VHC157FS	HC005805K0
⚠ Q714		HC98J25210	IC BA25BC0FP +2.5V REG.	HC98J25210
			PD01-MISCELLANEOUS	
J702		YP07005520	PLUG 9852B-40A-T	YP07005520
			BOARD TO BOARD	
J704		YP07005520	PLUG 9852B-40A-T	YP07005520
			BOARD TO BOARD	
L601		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
			PE01-SCART	
			CIRCUIT BOARD [/N only]	
			PE01-CAPACITORS	
C801	/N	nsp	ELECT. 10µF M 16V RA-2	OA10601620
C802	/N	nsp	CER. 10000pF	DA17103110
C803	/N	nsp	CER. 10000pF	DA17103110
C804	/N	nsp	CER. 10000pF	DA17103110
C805	/N	nsp	ELECT. 100µF M 10V RA-2	OA10701020
C806	/N	nsp	ELECT. 100µF M 10V RA-2	OA10701020
C807	/N	nsp	ELECT. 100µF M 10V RA-2	OA10701020
C808	/N	nsp	ELECT. 470µF M 6.3V RA-2	OA47700620
C809	/N	nsp	ELECT. 470µF M 6.3V RA-2	OA47700620
C811				
∫	/N	nsp	CER. 10000pF	DA17103110
C814				
C950	/N	nsp	CER. 10000pF	DA17103110
C951	/N	nsp	CER. 10000pF	DA17103110
C952				
∫	/N	nsp	CER. 330pF	DA16331110
C959				
			PE01-SEMICONDUCTORS	
D801				
∫	/N	nsp	DIODE 1SS176 MA165	HD20002000
D804			1SS254 30V 0.1A	
D805				
∫	/N	nsp	ZENER DIODE 8.2V	HD30821000
D814				
D950	/N	nsp	DIODE 1SS176 MA165	HD20002000
			1SS254 30V 0.1A	
D951	/N	nsp	DIODE 1SS176 MA165	HD20002000
			1SS254 30V 0.1A	
			PE01-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES.	
			±5% 1/6W : ALL	
			PE01-MISCELLANEOUS	
J801	/N	YT02210080	TERMINAL YKF41-5038	YT02210080
			SCART CONNECTOR	
J802	/N	YT02210080	TERMINAL YKF41-5038	YT02210080
			SCART CONNECTOR	
L801				
∫	/N	LY20120620	RELAY ED2-12NU 12V	LY20120620
L804				
L950	/N	LY20120620	RELAY ED2-12NU 12V	LY20120620
L951	/N	LY20120620	RELAY ED2-12NU 12V	LY20120620

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
			PF01-FRONT	
			CIRCUIT BOARD	
			PF01-CAPACITORS	
CF01		nsp	CER. CHIP 0.047µF	DK98473300
CF03				
∫		nsp	CER. CHIP 100pF ±5% 50V	DD95101300
CF07				
CF08		nsp	CER. CHIP 0.047µF	DK98473300
CF11		nsp	ELECT. 10µF 16V	EJ10601610
CF12		nsp	CER. CHIP 0.1µF	DK98104200
CF13		nsp	ELECT. 100µF 6.3V	EJ10700610
CF16		nsp	CER. CHIP 0.1µF	DK98104200
CF17		nsp	CER. CHIP 0.1µF	DK98104200
CF18		nsp	CER. CHIP 0.047µF	DK98473300
CF19		nsp	CER. CHIP 0.047µF	DK98473300
CF20				
∫		nsp	CER. CHIP 100pF ±5% 50V	DD95101300
CF32				
CF33		nsp	CER. CHIP 0.047µF	DK98473300
CF34				
∫		nsp	CER. CHIP 100pF ±5% 50V	DD95101300
CF38				
CF39		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CF40		nsp	ELECT. 47µF 10V	EJ47601010
			PF01-RESISTORS	
RF01				
RF06		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
RF07				
RF08		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RF09		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RF10		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RF11		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RF13	/C/L/S		CHIP 10kΩ ±5% 1/16W	NN05103610
	/U			
RF14	/A/F/N	nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RF15	/A/C/L/		CHIP 10kΩ ±5% 1/16W	NN05103610
	S			
RF16	/F/N/U	nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RF17	/N	nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RF18	/A/C/F		CHIP 10kΩ ±5% 1/16W	NN05103610
	/L/S/U			
RF19		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
RF20		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
RF21		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RF22		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RF23		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RF25		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RF26		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RF27		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RF28		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
RF30		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RF31		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RF32		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RF33		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RF34		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RF35		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RF36		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RF37		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RF38		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RF39				
∫		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RF42				
RF43				
∫		nsp	CHIP 82kΩ ±5% 1/16W	NN05823610
RF47				
RF48		nsp	CHIP 270Ω ±5% 1/16W	NN05271610
RF49		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RF52		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
RF53		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RF55		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
RF56		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
RF57		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
RF60		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
			PF01-SEMICONDUCTORS	
DF01		nsp	CHIP DIODE 1SS301 DAN202U	HZ21005000
DF03		HI10005340	L.E.D. HLMF-K200 #2UL RED	HI10005340
DF04		HI10039080	L.E.D. SELU1E50CM-S BLUE	HI10039080
QF01		*HS02AKT0R	IC TMP87PM74F ONE TIME PROM	*HS02AKT0R
QF02		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QF04		HC10098550	IC PST600D-2 RESET IC	HC10098550
QF05		BA10026210	DIG.TRS. DTA114EU	BA10026210
QF06		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
QF07		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QF08		HC10033990	IC AT24C04N-10SI-2.5	HC10033990
			PF01-MISCELLANEOUS	
LF01		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
LF03		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
SF01 ≀ SF07		nsp	PUSH SWITCH SKHVBF 260GF RED	SP01012030
VF01		HQ31113410	DISPLAY UNIT 11-BT-198GNK	HQ31113410
XF01		FQ08004060	SERAMIC VIB. CSTS MG 8MHz 15pF	FQ08004060
ZF01		nsp	PHOTO UNIT IR SENSOR RPM6936-V4	HW10004210
			PF02-STAND BY LED CIRCUIT BOARD	
DF02		HI10005340	L.E.D. HLMF-K200 #2UL RED	HI10005340
			PM01-AV CIRCUIT BOARD	
			PM01-CAPACITORS	
C200		nsp	ELECT. 100uF M 16V RA-2	OA10701620
C203	/A/C/N/S	OF15101550	FILM 00pF J 100V	OF15101550
C203	/F/L/U		FILM 100pF J 100V APSV	OF15101540
C204	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C204	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C205	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C205	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C206	/A/C/N/S	OF15221550	FILM 220pF J 100V NH	OF15221550
C206	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C208	/A/C/N/S	OF15221550	FILM 220pF J 100V NH	OF15221550
C208	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C210		nsp	ELECT. 220µF 16V ARS	OA22701640
C211		nsp	ELECT. 220µF 16V ARS	OA22701640
C212		nsp	CER.CHIP 270pF ± 5%	DD95271300
C221	/N	nsp	CER.CHIP 270pF ± 5%	DD95271300
C233	/A/C/N/S	OF15101550	FILM 00pF J 100V	OF15101550
C233	/F/L/U		FILM 100pF J 100V APSV	OF15101540
C233	/L1G		FILM 100pF J 100V APSV	OF15101540

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
C234	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C234	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C235	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C235	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C236	/A/C/N/S	OF15221550	FILM 220pF J 100V NH	OF15221550
C236	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C238	/A/C/N/S	OF15221550	FILM 220pF J 100V NH	OF15221550
C238	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C240		nsp	ELECT. 220µF 16V ARS	OA22701640
C241		nsp	ELECT. 220µF 16V ARS	OA22701640
C242		nsp	CER. CHIP 270pF ± 5%	DD95271300
C251	/N	nsp	CER. CHIP 270pF ± 5%	DD95271300
C301		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
C311		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
C321		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
C331		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
C341		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
C351		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
C403	/A/C/N/S	OF15101550	FILM 00pF J 100V	OF15101550
C403	/F/L/U		FILM 100pF J 100V APSV	OF15101540
C404	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C404	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C405	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C405	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C406	/A/C/N/S	OF15221550	FILM 220pF J 100V NH	OF15221550
C406	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C408	/A/C/N/S	OF15221550	FILM 220pF J 100V NH	OF15221550
C408	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C410		nsp	ELECT. 220µF 16V ARS	OA22701640
C411		nsp	ELECT. 220µF 16V ARS	OA22701640
C412		nsp	CER. CHIP 270pF ± 5%	DD95271300
C433	/A/C/N/S	OF15101550	FILM 00pF J 100V	OF15101550
C433	/F/L/U		FILM 100pF J 100V APSV	OF15101540
C434	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C434	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C435	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C435	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C436	/A/C/N/S	OF15221550	FILM 220pF J 100V NH	OF15221550
C436	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C438	/A/C/N/S	OF15221550	FILM 220pF J 100V NH	OF15221550
C438	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C440		nsp	ELECT. 220µF 16V ARS	OA22701640
C441		nsp	ELECT. 220µF 16V ARS	OA22701640
C442		nsp	CER. CHIP 270pF ± 5%	DD95271300
C503	/A/C/N/S	OF15101550	FILM 00pF J 100V	OF15101550
C503	/F/L/U		FILM 100pF J 100V APSV	OF15101540
C504	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C504	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C505	/A/C/N/S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C505	/F/L/U		FILM 1000pF J 100V APSV	OF15102540

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
C506	/A/C/N /S	OF15221550	FILM 220pF J 100V NH	OF15221550
C506	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C508	/A/C/N /S	OF15221550	FILM 220pF J 100V NH	OF15221550
C508	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C510		nsp	ELECT. 220µF 16V ARS	OA22701640
C511		nsp	ELECT. 220µF 16V ARS	OA22701640
C512		nsp	CER. CHIP 270pF ± 5%	DD95271300
C533	/A/C/N /S	OF15101550	FILM 00pF J 100V	OF15101550
C533	/F/L/U		FILM 100pF J 100V APSV	OF15101540
C534	/A/C/N /S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C534	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C535	/A/C/N /S	OF15102550	FILM 1000pF J 100V NH	OF15102550
C535	/F/L/U		FILM 1000pF J 100V APSV	OF15102540
C536	/A/C/N /S	OF15221550	FILM 220pF J 100V NH	OF15221550
C536	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C538	/A/C/N /S	OF15221550	FILM 220pF J 100V NH	OF15221550
C538	/F/L/U		FILM 220pF J 100V PP APSV	OF15221540
C540		nsp	ELECT. 220µF 16V ARS	OA22701640
C541		nsp	ELECT. 220µF 16V ARS	OA22701640
C542		nsp	CER. CHIP 270pF ± 5%	DD95271300
C852	/N	nsp	CER. CHIP 27pF	DD95270300
C853	/N	nsp	CER. CHIP 3pF ±0.25pF 50V	DD90030300
C854	/N	nsp	CER. CHIP 68pF	DD95680300
C855	/N	nsp	CER. CHIP 5pF ±0.25pF 50V	DD90050300
C856	/N	nsp	CER. CHIP 56pF	DD95560300
C857	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C859	/N	nsp	ELECT. 10µF M 50V RA-2	OA10605020
C860	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C862	/N	nsp	CER. CHIP 27pF	DD95270300
C863	/N	nsp	CER. CHIP 3pF ±0.25pF 50V	DD90030300
C864	/N	nsp	CER. CHIP 68pF	DD95680300
C865	/N	nsp	CER. CHIP 5pF ±0.25pF 50V	DD90050300
C866	/N	nsp	CER. CHIP 56pF	DD95560300
C867	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C868	/N	nsp	ELECT. 10µF M 50V RA-2	OA10605020
C869	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C871	/N	nsp	CER. CHIP 27pF	DD95270300
C872	/N	nsp	CER. CHIP 3pF ±0.25pF 50V	DD90030300
C873	/N	nsp	CER. CHIP 68pF	DD95680300
C874	/N	nsp	CER. CHIP 5pF ±0.25pF 50V	DD90050300
C875	/N	nsp	CER. CHIP 56pF	DD95560300
C876	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C877	/N	nsp	ELECT. 10µF M 50V RA-2	OA10605020
C878	/N	nsp	CER. CHIP 0.1µF	DK98104200
C879	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C880	/N	nsp	ELECT. 10µF M 50V RA-2	OA10605020
C881	/N	nsp	ELECT. 10µF M 50V RA-2	OA10605020
C882	/N	nsp	ELECT. 10µF M 50V RA-2	OA10605020
C883	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C884	/N	nsp	ELECT. 10µF M 50V RA-2	OA10605020
C885	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
C886	/N	nsp	CER. CHIP 0.1µF	DK98104200
C887	/N	nsp	CER. CHIP 0.1µF	DK98104200
C888	/N	nsp	CER. CHIP 0.1µF	DK98104200
C889	/N	nsp	CER. CHIP 0.1µF	DK98104200
CA01		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CA02 ∫ CA06		nsp	CER. CHIP 0.1µF	DK98104200
CA10		nsp	CER. CHIP 100pF ±5% 50V	DD95101300

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
CA11		nsp	CER. CHIP 820pF ± 10%	DK96821300
CA12		nsp	CER. CHIP 0.0039µF W5R	DK96392300
CA14 ∫ CA17		nsp	CER. CHIP 0.1µF	DK98104200
CA18		nsp	CER. CHIP 1µF 10V F	DK98105200
CA20		nsp	ELECT. 470µF M 10V RA-2	OA47701020
CA21		nsp	CER. CHIP 0.1µF	DK98104200
CA22		nsp	CER. CHIP 0.1µF	DK98104200
CA23		nsp	CER. CHIP 0.1µF	DK98104200
CA24		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CA25		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CA26		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CA28		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CB01	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CB02		nsp	CER. CHIP 10pF ±0.5pF 50V	DD91100300
CB03		nsp	CER. CHIP 3pF ±0.25pF 50V	DD90030300
CB04		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
CB05		nsp	CER. CHIP 7pF ±0.5pF 50V	DD91070300
CB06		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300
CB07		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CB08		nsp	ELECT. 10µF M 50V RA-2	OA10605020
CB09		nsp	ELECT. 470µF M 6.3V RA-2	OA47700620
CB11	/A/C/F /L/S	nsp	ELECT. 470µF M 6.3V RA-2	OA47700620
CC01	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CC02		nsp	CER. CHIP 10pF ±0.5pF 50V	DD91100300
CC03		nsp	CER. CHIP 3pF ±0.25pF 50V	DD90030300
CC04		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
CC05		nsp	CER. CHIP 7pF ±0.5pF 50V	DD91070300
CC06		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300
CC07		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CC08		nsp	ELECT. 10µF M 50V RA-2	OA10605020
CC09		nsp	ELECT. 470µF M 6.3V RA-2	OA47700620
CC11	/A/C/F /L/S	nsp	ELECT. 470µF M 6.3V RA-2	OA47700620
CD01		nsp	ELECT. 220µF 16V ARA CERAFINE	OA22701650
CD02		nsp	CER. CHIP 0.1µF	DK98104200
CD03		nsp	ELECT. 1µF M 50V RA-2	OA10505020
CD04		nsp	CER. CHIP 0.1µF	DK98104200
CD05		nsp	ELECT. 1µF M 50V RA-2	OA10505020
CD06		nsp	CER. CHIP 0.1µF	DK98104200
CD07		nsp	ELECT. 100µF 10V ARA	OA10701050
CD08		nsp	CER. CHIP 1µF 10V F	DK98105200
CD21		nsp	ELECT. 220µF 16V ARA CERAFINE	OA22701650
CD22		nsp	CER. CHIP 0.1µF	DK98104200
CD23		nsp	ELECT. 1µF M 50V RA-2	OA10505020
CD24		nsp	CER. CHIP 0.1µF	DK98104200
CD25		nsp	ELECT. 1µF M 50V RA-2	OA10505020
CD26		nsp	CER. CHIP 0.1µF	DK98104200
CD27		nsp	ELECT. 100µF 10V ARA	OA10701050
CD28		nsp	CER. CHIP 1µF 10V F	DK98105200
CD41		nsp	ELECT. 220µF 16V ARA CERAFINE	OA22701650
CD42		nsp	CER. CHIP 0.1µF	DK98104200
CD43		nsp	ELECT. 1µF M 50V RA-2	OA10505020
CD44		nsp	CER. CHIP 0.1µF	DK98104200
CD45		nsp	ELECT. 1µF M 50V RA-2	OA10505020
CD46		nsp	CER. CHIP 0.1µF	DK98104200
CD47		nsp	ELECT. 100µF 10V ARA	OA10701050
CD48		nsp	CER. CHIP 1µF 10V F	DK98105200
CE02 ∫ CE13		nsp	CER. CHIP 0.1µF	DK98104200
CE14		nsp	ELECT. 100µF M 10V RA-2	OA10701020

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
CE15				
≀		nsp	CER. CHIP 0.1µF	DK98104200
CE21				
CE23				
≀		nsp	CER. CHIP 0.1µF	DK98104200
CE26				
CE27		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CE28		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CE29				
≀		nsp	CER. CHIP 0.1µF	DK98104200
CE33				
CE35		nsp	CER. CHIP 0.1µF	DK98104200
CE36		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CE37		nsp	CER. CHIP 0.1µF	DK98104200
CE38		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CE39				
≀		nsp	CER. CHIP 0.1µF	DK98104200
CE51				
CE52		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CE53		nsp	CER. CHIP 0.1µF	DK98104200
CE54		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CE55		nsp	CER. CHIP 0.1µF	DK98104200
CE56		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CI02		nsp	CER. CHIP 0.1µF	DK98104200
CI05		nsp	ELECT. 1µF M 50V RA-2	OA10505020
CI10		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CI11		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CI12		nsp	CER. CHIP 220pF	DK96221300
CI13		nsp	CER. CHIP 1µF 10V F	DK98105200
CI20		nsp	ELECT. 47µF M 16VRA-2	OA47601620
CI21		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CI31		nsp	CER. CHIP 0.1µF	DK98104200
CV01		nsp	ELECT. 470µF M 10V RA-2	OA47701020
CV02		nsp	CER. CHIP 0.1µF	DK98104200
CV03		nsp	ELECT. 1µF M 50V RA-2	OA10505020
CV04		nsp	ELECT. 470µF M 10V RA-2	OA47701020
CV05		nsp	CER. CHIP 0.1µF	DK98104200
CV06		nsp	ELECT. 470µF 16V M RA-2	OA47701620
CV07		nsp	CER. CHIP 0.1µF	DK98104200
CV08		nsp	ELECT. 470µF 16V M RA-2	OA47701620
CV09		nsp	CER. CHIP 0.1µF	DK98104200
CV10		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CV11		nsp	CER. CHIP 10pF ±0.5pF 50V	DD91100300
CV13		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
CV15		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
CV16		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CV17		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CV18		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CV19		nsp	CER. CHIP 10pF ±0.5pF 50V	DD91100300
CV21		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
CV23		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
CV24		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CV25		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CV26		nsp	CER. CHIP 10pF ±0.5pF 50V	DD91100300
CV28		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
CV30		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
CV31		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CV32		nsp	ELECT. 10µF M 50V RA-2	OA10605020
CV33		nsp	CER. CHIP 0.1µF	DK98104200
CV34		nsp	ELECT. 10µF M 50V RA-2	OA10605020
CV35		nsp	ELECT. 100µF M 16V RA-2	OA10701620
CV36		nsp	CER. CHIP 0.1µF	DK98104200
CV37		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
CV38		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
CV39		nsp	ELECT. 100µF M 16V RA-2	OA10701620
CV40		nsp	CER. CHIP 0.1µF	DK98104200
CV41		nsp	CER. CHIP 0.1µF	DK98104200

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
CV42		nsp	CER. CHIP 0.1µF	DK98104200
CV43		nsp	ELECT. 1000µF 6.3V M RA-2	OA10800620
CV44		nsp	ELECT. 1000µF 6.3V M RA-2	OA10800620
CV45		nsp	CER. CHIP 0.1µF	DK98104200
CV46		nsp	ELECT. 1000µF 6.3V M RA-2	OA10800620
CV51		nsp	CER. CHIP 0.1µF	DK98104200
CV52		nsp	ELECT. 470µF 16V M RA-2	OA47701620
CV53		nsp	CER. CHIP 0.1µF	DK98104200
CY01	/N	nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CY02		nsp	CER. CHIP 10pF ±0.5pF 50V	DD91100300
CY03		nsp	CER. CHIP 3pF ±0.25pF 50V	DD90030300
CY04		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
CY05		nsp	CER. CHIP 7pF ±0.5pF 50V	DD91070300
CY06		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300
CY07		nsp	CER. CHIP 0.01µF ±10% 50V	DK96103300
CY08		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CY09		nsp	ELECT. 10µF M 50V RA-2	OA10605020
CY10		nsp	ELECT. 100µF M 16V RA-2	OA10701620
CY11		nsp	CER. CHIP 0.1µF	DK98104200
CY12		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
CY13		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
CY14		nsp	ELECT. 100µF M 16V RA-2	OA10701620
CY15		nsp	CER. CHIP 0.1µF	DK98104200
CY16		nsp	CER. CHIP 0.1µF	DK98104200
CY17		nsp	ELECT. 470µF 16V M RA-2	OA47701620
CY18		nsp	ELECT. 1000µF 6.3V M RA-2	OA10800620
CY20	/A/C/F /L/S		ELECT. 1000µF 6.3V M RA-2	OA10800620
CY22	/A/C/F /L/S		CER. CHIP 0.1µF	DK98104200
CY23	/A/C/F /L/S		CER. CHIP 0.1µF	DK98104200
			PM01-RESISTORS	
R201				
≀		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R206				
R207		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R208		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R209		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R210		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R211		nsp	10Ω ±5% 1/6W	GG05100160
R212		nsp	10Ω ±5% 1/6W	GG05100160
R213		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
R215		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R216		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R217		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
R219		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R220	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R221	/N	nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R222	/N	nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R224	/N	nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R225		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R226		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R227		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R228		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R231		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R232		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R233				
≀		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R236				
R237		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R238		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R239		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R240		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R241		nsp	10Ω ±5% 1/6W	GG05100160
R242		nsp	10Ω ±5% 1/6W	GG05100160
R243		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
R245		nsp	CHIP 220Ω ±5% 1/16W	NN05221610

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
R246		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R247		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
R249		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R250	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R251	/N	nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R252	/N	nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R254	/N	nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R255		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R256		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R257		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R258		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R301		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R302		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R303		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R304		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R305		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R306		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
R307		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R308		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R309		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R311		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R312		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R313		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R314		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R315		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R316		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
R317		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R318		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R319		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R321		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R322		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R323		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R324		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R325		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R326		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
R327		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R328		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R329		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R331		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R332		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R333		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R334		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R335		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R336		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
R337		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R338		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R339		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R341		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R342		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R343		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R344		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R345		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R346		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
R347		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R348		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R349		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R351		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R352		nsp	CHIP 150Ω ±5% 1/16W	NN05151610
R353		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R354		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R355		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R356		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
R357		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R358		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
R359		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R401		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R402		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
R403 ~ R406		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R407		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R408		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R409		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R410		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R411		nsp	10Ω ±5% 1/6W	GG05100160
R412		nsp	10Ω ±5% 1/6W	GG05100160
R413		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
R415		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R416		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R417		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
R419		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R425		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R426		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R427		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R428		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R431		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R432		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R433 ~ R436		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R437		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R438		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R439		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R440		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R441		nsp	10Ω ±5% 1/6W	GG05100160
R442		nsp	10Ω ±5% 1/6W	GG05100160
R443		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
R445		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R446		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R447		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
R449		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R455		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R456		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R457		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R458		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R501		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R502		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R503 ~ R506		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R507		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R508		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R509		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R510		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R511		nsp	10Ω ±5% 1/6W	GG05100160
R512		nsp	10Ω ±5% 1/6W	GG05100160
R513		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
R515		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R516		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R517		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
R519		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R525		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R526		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R527		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R528		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R531		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R532		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R533 ~ R536		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R537		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R538		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R539		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R540		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R541		nsp	10Ω ±5% 1/6W	GG05100160

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
R542		nsp	10Ω ±5% 1/6W	GG05100160
R543		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
R545		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R546		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R547		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
R549		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R555		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R556		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R557		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
R558		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R855	/N	nsp	CHIP 470Ω ±5% 1/16W	NN05471610
R856	/N	nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R857	/N	nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R858	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R864	/N	nsp	CHIP 470Ω ±5% 1/16W	NN05471610
R865	/N	nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R866	/N	nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R867	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R873	/N	nsp	CHIP 470Ω ±5% 1/16W	NN05471610
R874	/N	nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R875	/N	nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R876	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R878	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R879	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R880	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
R881	/N	nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R882	/N	nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R883	/N	nsp	CHIP 56kΩ ±5% 1/16W	NN05563610
R884	/N	nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R885	/N	nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R886	/N	nsp	CHIP 220Ω ±5% 1/16W	NN05221610
R887	/N	nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
R888	/N	nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
R889	/N	nsp	CHIP 56kΩ ±5% 1/16W	NN05563610
R890	/N	nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
R891	/N	nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
R892	/N	nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
RA01		nsp	FERRITE CORE CHIP	FC90020110
			BLM11B601S	
RA03		nsp	FERRITE CORE CHIP	FC90020110
			BLM11B601S	
RA04				
RA05		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA06		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA07				
RA08		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RA09		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RA10		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RA12		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA13		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RA14		nsp	CHIP 680Ω ±5% 1/16W	NN05681610
RA15		nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
RA16		nsp	CHIP 47Ω ±5% 1/16W	NN05470610
		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610
RA-23				
		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610
RA-25				
		nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
RA-26				
		nsp	CHIP 47Ω ±5% 1/16W	NN05470610
RA-27				
		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA-28				
		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RA-29				
RA30		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RA31		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RA32		nsp	CHIP 680Ω ±5% 1/16W	NN05681610

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
RA33		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
RA34		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RA35		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RA36		nsp	CHIP 680Ω ±5% 1/16W	NN05681610
RA37		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
RA38		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RA39		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RA40		nsp	CHIP 680Ω ±5% 1/16W	NN05681610
RA41		nsp	CHIP 560Ω ±5% 1/16W	NN05561610
RA42		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RA43		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RA44	/A/C/F		CHIP 0Ω ±5% 1/16W	NN05000610
	/L/S/U			
RA45	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA46	/A/C/F		CHIP 0Ω ±5% 1/16W	NN05000610
	/L/S/U			
RA47	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA48	/A/C/F		CHIP 0Ω ±5% 1/16W	NN05000610
	/L/S/U			
RA49	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA50		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA51		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA52		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RA53		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RB01	/N	nsp	CHIP 68Ω ±5% 1/16W	NN05680610
RB03	/N	nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RB04	/N	nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RB05		nsp	CHIP 390Ω ±5% 1/16W	NN05391610
RB06		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
RB07		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RB08	/A/C/F		CHIP 0Ω ±5% 1/16W	NN05000610
	/L/S/U			
RB08	/N	nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
RB09	/N	nsp	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RB10		nsp	CHIP 33Ω ±5% 1/16W	NN05330610
RB11		nsp	CHIP 27Ω ±5% 1/16W	NN05270610
RB12	/A/C/F		CHIP 33Ω ±5% 1/16W	NN05330610
	/L/S			
RB13	/A/C/F		CHIP 27Ω ±5% 1/16W	NN05270610
	/L/S/U			
RB23	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RB25	/A/C/F		CHIP 0Ω ±5% 1/16W	NN05000610
	/L/S/U			
RC01	/N	nsp	CHIP 68Ω ±5% 1/16W	NN05680610
RC03	/N	nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RC04	/N	nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RC05		nsp	CHIP 390Ω ±5% 1/16W	NN05391610
RC06		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
RC07		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RC08	/A/C/F		CHIP 0Ω ±5% 1/16W	NN05000610
	/L/S/U			
RC08	/N	nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
RC09	/N	nsp	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RC10		nsp	CHIP 33Ω ±5% 1/16W	NN05330610
RC11		nsp	CHIP 27Ω ±5% 1/16W	NN05270610
RC12	/A/C/F		CHIP 33Ω ±5% 1/16W	NN05330610
	/L/S			
RC13	/A/C/F		CHIP 27Ω ±5% 1/16W	NN05270610
	/L/S/U			
RC23	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RC25	/A/C/F		CHIP 0Ω ±5% 1/16W	NN05000610
	/L/S/U			
RD01		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD02		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD03		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD11		nsp	CHIP 0Ω ±5% 1/16W	NN05000610

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
RD21		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD22		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD23		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD31		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD41		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD42		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD43		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RD51		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE01 ∫ RE11		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE12 ∫ RE18		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
RE19				
RE20 ∫ RE33		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE34				
RE35		BW05000320	RES.COMPO. 0Ω X 4 J CN1J KOA	BW05000320
RE38		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE39		BW05000320	RES.COMPO. 0Ω X 4 J CN1J KOA	BW05000320
RE43		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE44		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE45		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE46		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
RE49	/A/C/F /L/S/U		CHIP 1.2kΩ ±5% 1/16W	NN05122610
RE49	/N	nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RE50		nsp	CHIP 8.2kΩ ±5% 1/16W	NN05822610
RE51	/A/C/F /L/S/U		CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE51	/N	nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RE52		nsp	CHIP 330Ω ±5% 1/16W	NN05331610
RE53		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE54		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE55		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
RE56		BW05000320	RES.COMPO. 0Ω X 4 J CN1J KOA	BW05000320
RE57		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE58		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE59		BW05000320	RES.COMPO. 0Ω X 4 J CN1J KOA	BW05000320
RE60		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE61		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE62		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE63		BW05000320	RES.COMPO. 0Ω X 4 J CN1J KOA	BW05000320
RE64		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE65		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE66		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE70 ∫ RE74		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RE75		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
RE76		nsp	CHIP 75Ω ±5% 1/16W	NN05750610
RE77		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
RE78		BW05103320	RES.COMPO. 10kΩ X 4 J CN1J KOA	BW05103320
RE79		BW05103320	RES.COMPO. 10kΩ X 4 J CN1J KOA	BW05103320
RE80		BW05103320	RES.COMPO. 10kΩ X 4 J CN1J KOA	BW05103320
RE81		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RE82		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RE83		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RE84		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RG01 ∫ RG23		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RI03		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RI04		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RI05		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RI06		nsp	CHIP 3.9kΩ ±5% 1/16W	NN05392610
RI07		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
RI08		nsp	CHIP 68Ω ±5% 1/16W	NN05680610
RI09		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
RI10		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RI14		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
RI16		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RI17		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RI21		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
RI31 ∫ RI34		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RI35		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RV01		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RV02		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
RV03		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
RV04		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
RV05	/A/C/F /L/S/U		CHIP 470Ω ±5% 1/16W	NN05471610
RV05	/N	nsp	CHIP 680Ω ±5% 1/16W	NN05681610
RV06	/A/C/F /L/S/U		CHIP 470Ω ±5% 1/16W	NN05471610
RV06	/N	nsp	CHIP 560Ω ±5% 1/16W	NN05561610
RV07		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RV08		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RV09		nsp	CHIP 680Ω ±5% 1/16W	NN05681610
RV10		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
RV11		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RV12	/A/C/F /L/S/U		CHIP 470Ω ±5% 1/16W	NN05471610
RV12	/N	nsp	CHIP 680Ω ±5% 1/16W	NN05681610
RV13	/A/C/F /L/S/U		CHIP 470Ω ±5% 1/16W	NN05471610
RV13	/N	nsp	CHIP 560Ω ±5% 1/16W	NN05561610
RV14		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RV15		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RV16		nsp	CHIP 680Ω ±5% 1/16W	NN05681610
RV17		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
RV18		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RV19	/A/C/F /L/S/U		CHIP 470Ω ±5% 1/16W	NN05471610
RV19	/N	nsp	CHIP 680Ω ±5% 1/16W	NN05681610
RV20	/A/C/F /L/S/U		CHIP 470Ω ±5% 1/16W	NN05471610
RV20	/N	nsp	CHIP 560Ω ±5% 1/16W	NN05561610
RV21		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RV22		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RV23		nsp	CHIP 680Ω ±5% 1/16W	NN05681610
RV24		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
RV25		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RV26		nsp	CHIP 1.2kΩ ±5% 1/16W	NN05122610
RV27		nsp	CHIP 3.9kΩ ±5% 1/16W	NN05392610
RV28	/A/C/F /L/S/U		CHIP 0Ω ±5% 1/16W	NN05000610
RV29	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RV30		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RV31		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RV32		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
RV33		nsp	CHIP 47Ω ±5% 1/16W	NN05470610
RV34		nsp	CHIP 15Ω ±5% 1/16W	NN05150610
RV35		nsp	CHIP 47Ω ±5% 1/16W	NN05470610
RV36		nsp	CHIP 15Ω ±5% 1/16W	NN05150610
RV37		nsp	CHIP 33Ω ±5% 1/16W	NN05330610
RV38		nsp	CHIP 27Ω ±5% 1/16W	NN05270610
RV39		nsp	CHIP 33Ω ±5% 1/16W	NN05330610
RV40		nsp	CHIP 27Ω ±5% 1/16W	NN05270610
RV41		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RV43		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RV45		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RV47		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RV48		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RV50		nsp	CHIP 1.2kΩ ±5% 1/16W	NN05122610
RV51		nsp	CHIP 1.2kΩ ±5% 1/16W	NN05122610
RV52		nsp	CHIP 1.2kΩ ±5% 1/16W	NN05122610
RY01	/N	nsp	CHIP 68Ω ±5% 1/16W	NN05680610
RY03	/N	nsp	CHIP 100Ω ±5% 1/16W	NN05101610
RY04	/N	nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RY05		nsp	CHIP 390Ω ±5% 1/16W	NN05391610
RY06		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
RY07		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RY08		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RY10	/N/U	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RY11		nsp	CHIP 1.2kΩ ±5% 1/16W	NN05122610
RY12		nsp	CHIP 3.9kΩ ±5% 1/16W	NN05392610
RY14		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RY15		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RY16		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RY17		nsp	CHIP 33Ω ±5% 1/16W	NN05330610
RY18		nsp	CHIP 27Ω ±5% 1/16W	NN05270610
RY19	/A/C/F /L/S		CHIP 10kΩ ±5% 1/16W	NN05103610
RY20	/A/C/F /L/S		CHIP 10kΩ ±5% 1/16W	NN05103610
RY21	/A/C/F /L/S		CHIP 33Ω ±5% 1/16W	NN05330610
RY22	/A/C/F /L/S		CHIP 27Ω ±5% 1/16W	NN05270610
RY23	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RY25	/A/C/F /L/S/U		CHIP 0Ω ±5% 1/16W	NN05000610
			PM01-SEMICONDUCTORS	
D200		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
D221		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
D251		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
D301		HZ20007210	CHIP DIODE IMN10 ARRAY	HZ20007210
D302		HZ20018050	CHIP DIODE 1SS302	HZ20018050
D311		HZ20007210	CHIP DIODE IMN10 ARRAY	HZ20007210
D312		HZ20018050	CHIP DIODE 1SS302	HZ20018050
D321		HZ20007210	CHIP DIODE IMN10 ARRAY	HZ20007210
D322		HZ20018050	CHIP DIODE 1SS302	HZ20018050
D331		HZ20007210	CHIP DIODE IMN10 ARRAY	HZ20007210
D332		HZ20018050	CHIP DIODE 1SS302	HZ20018050
D341		HZ20007210	CHIP DIODE IMN10 ARRAY	HZ20007210
D342		HZ20018050	CHIP DIODE 1SS302	HZ20018050
D351		HZ20007210	CHIP DIODE IMN10 ARRAY	HZ20007210
D352		HZ20018050	CHIP DIODE 1SS302	HZ20018050
D421		HZ21005000	CHIP DIODE1SS301 DAN202U	HZ21005000
D451		HZ21005000	CHIP DIODE1SS301 DAN202U	HZ21005000
D521		HZ21005000	CHIP DIODE1SS301 DAN202U	HZ21005000
D551		HZ21005000	CHIP DIODE1SS301 DAN202U	HZ21005000
DV01		HZ30034050	CHIP DIODE 01ZA8.2	HZ30034050
DV02		HZ30034050	CHIP DIODE 01ZA8.2	HZ30034050
Q201		HF201701H0	F.E.T. 2SK170 V LANK	HF201701H0
Q202		nsp	F.E.T. 2SJ74 V LANK	HF100741H0
Q204		nsp	CHIP TRS. 2SC4213	HX342132A0

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
Q206	/N	nsp	CHIP TRS. 2SC4213	HX342132A0
Q207		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q208		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q209		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q231		HF201701H0	F.E.T. 2SK170 V LANK	HF201701H0
Q232		nsp	F.E.T. 2SJ74 V LANK	HF100741H0
Q234		nsp	CHIP TRS. 2SC4213	HX342132A0
Q236	/N	nsp	CHIP TRS. 2SC4213	HX342132A0
Q237		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q238		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q239		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q301		nsp	F.E.T. 2SK389 GR OR BL	HF203892A0
Q303		nsp	CHIP TRS. 2SC2873 Y	HX328731B0
Q304		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q305		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q306		nsp	CHIP TRS. 2SC3324 B	HX333241B0
Q311		nsp	F.E.T. 2SK389 GR OR BL	HF203892A0
Q313		nsp	CHIP TRS. 2SC2873 Y	HX328731B0
Q314		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q315		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q316		nsp	CHIP TRS. 2SC3324 B	HX333241B0
Q321		nsp	F.E.T. 2SK389 GR OR BL	HF203892A0
Q323		nsp	CHIP TRS. 2SC2873 Y	HX328731B0
Q324		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q325		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q326		nsp	CHIP TRS. 2SC3324 B	HX333241B0
Q331		nsp	F.E.T. 2SK389 GR OR BL	HF203892A0
Q333		nsp	CHIP TRS. 2SC2873 Y	HX328731B0
Q334		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q335		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q336		nsp	CHIP TRS. 2SC3324 B	HX333241B0
Q341		nsp	F.E.T. 2SK389 GR OR BL	HF203892A0
Q343		nsp	CHIP TRS. 2SC2873 Y	HX328731B0
Q344		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q345		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q346		nsp	CHIP TRS. 2SC3324 B	HX333241B0
Q351		nsp	F.E.T. 2SK389 GR OR BL	HF203892A0
Q353		nsp	CHIP TRS. 2SC2873 Y	HX328731B0
Q354		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q355		nsp	CHIP TRS. 2SA1312 B	HX113121B0
Q356		nsp	CHIP TRS. 2SC3324 B	HX333241B0
Q401		HF201701H0	F.E.T. 2SK170 V LANK	HF201701H0
Q402		nsp	F.E.T. 2SJ74 V LANK	HF100741H0
Q404		nsp	CHIP TRS. 2SC4213	HX342132A0
Q407		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q408		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q409		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q431		HF201701H0	F.E.T. 2SK170 V LANK	HF201701H0
Q432		nsp	F.E.T. 2SJ74 V LANK	HF100741H0
Q434		nsp	CHIP TRS. 2SC4213	HX342132A0
Q437		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q438		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q439		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q501		HF201701H0	F.E.T. 2SK170 V LANK	HF201701H0
Q502		nsp	F.E.T. 2SJ74 V LANK	HF100741H0
Q504		nsp	CHIP TRS. 2SC4213	HX342132A0
Q507		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q508		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q509		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q531		HF201701H0	F.E.T. 2SK170 V LANK	HF201701H0
Q532		nsp	F.E.T. 2SJ74 V LANK	HF100741H0
Q534		nsp	CHIP TRS. 2SC4213	HX342132A0
Q537		BA20035210	DIG.TRS. DTC114EU	BA20035210

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
Q538		BA20035210	DIG.TRS. DTC114EU	BA20035210
Q539		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q852	/N	nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q853	/N	HC10101550	IC MM1509XN VIDEO DRIVER CLAMP	HC10101550
Q855	/N	nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q856	/N	HC10101550	IC MM1509XN VIDEO DRIVER CLAMP	HC10101550
Q858	/N	nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q859	/N	HC10099550	IC MM1506XN VIDEO SW 6DB AMP	HC10099550
Q860	/N	HC10100550	IC MM1508XN VIDEO SW CLAMP	HC10100550
Q861	/N	HC10101550	IC MM1509XN VIDEO DRIVER CLAMP	HC10101550
Q862	/N	BA20035210	DIG.TRS. DTC114EU	BA20035210
Q863	/N	nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
Q864	/N	BA20035210	DIG.TRS. DTC114EU	BA20035210
Q865	/N	HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
QA01		HC10085840	IC ADV7300 VIDEO ENCODER	HC10085840
QA02		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QA03		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QA04		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QB01	/N	nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QB02		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QC01	/N	nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QC02		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QD01		HC10013880	IC CS4392 24BIT 192KHZ DAC	HC10013880
QD21		HC10013880	IC CS4392 24BIT 192KHZ DAC	HC10013880
QD41		HC10013880	IC CS4392 24BIT 192KHZ DAC	HC10013880
QE01		HC10018660	IC PM0033A PROGRESSIVE	HC10018660
QE02		HC10001910	IC K4S643232E-TC60 64MBIT SDRAM	HC10001910
⚠ QE03		HC98J25210	IC BA25BC0FP +2.5V REG.	HC98J25210
QE04		BA20035210	DIG.TRS. DTC114EU	BA20035210
QE05		BA20035210	DIG.TRS. DTC114EU	BA20035210
QI03		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
QV01		HC98510030	IC REG IC L88MS05T-FA	HC98510030
QV02		HX117971A0	CHIP TRS. 2SA1797	HX117971A0
QV03		BA20035210	DIG.TRS. DTC114EU	BA20035210
QV04 ~ QV09		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QV10		nsp	CHIP TRS. 2SA1162 0 Y	HX111622A0
QV11		HC10406030	IC LA7138M VIDEO AMP FOR DVD	HC10406030
QV12		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
QY01	/N	nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QY02		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QY03		nsp	CHIP TRS. 2SA1162 0 Y	HX111622A0

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
QY04		HC10406030	IC LA7138M VIDEO AMP FOR DVD	HC10406030
			PM01-MISCELLANEOUS	
F221	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
F251	/N	nsp	CHIP 0Ω ±5% 1/16W	NN05000610
J203		YT02041050	TERMINAL 14X14 RA 2L4P W/R AU FRNT-GND	YT02041050
J205		YT02041170	TERMINAL YKC21-3778	YT02041170
J206		YL01010320	TERMINAL M1698-A NEJI	YL01010320
J209		YL01010320	TERMINAL M1698-A NEJI	YL01010320
JI01		YT02021640	TERMINAL 14X14 RA 1L2P ORG NI F-GROUND	YT02021640
JI03		YT02011030	TERMINAL YKC21-3707	YT02011030
JI04		YJ15000210	OPT. CONNECTOR OUTPUT JFJ300	YJ15000210
JV01		YT02021630	TERMINAL 14X14 RA 1L2P YEL AU F-SHIELD	YT02021630
JV02		YJ11000670	JACK YKC51-5527	YJ11000670
JY01		YT02030580	TERMINAL 3P CINCH PIN JACK YKC21-4010	YT02030580
JY02	/A/C/F /L/S		JACK YKF45-3007 D CONNECTOR GOLD	YJ11000680
L851	/N	LC11233900	CHOKE COIL 12UH EL0405	LC11233900
L852	/N	LC11533900	CHOKE COIL SUBSTITUDE 15µH J%	LC11533900
L852	/N	LC11533900	CHOKE COIL SUBSTITUDE 15µH J%	LC11533900
L853	/N	LC11233900	CHOKE COIL 12UH EL0405	LC11233900
L854	/N	LC11533900	CHOKE COIL SUBSTITUDE 15µH J%	LC11533900
L855	/N	LC11233900	CHOKE COIL 12UH EL0405	LC11233900
L856	/N	LC11533900	CHOKE COIL SUBSTITUDE 15µH J%	LC11533900
LA01		LC11033900	CHOKE COIL SUBSTITUDE 10µH J%	LC11033900
LB01		LC14723900	CHOKE COIL 4.7UH EL0405	LC14723900
LB02		LC15623900	CHOKE COIL SUBSTITUDE 5.6µH J%	LC15623900
LB03		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
LB04	/A/C/F /L/S		CHIP 0Ω ±5% 1/16W	NN05000610
LC01		nsp	CHOKE COIL 4.7UH EL0405	LC14723900
LC02		nsp	CHOKE COIL SUBSTITUDE 5.6µH J%	LC15623900
LC03		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
LC04	/A/C/F /L/S/U		CHIP 0Ω ±5% 1/16W	NN05000610
LD01		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
LE01		LC11033900	CHOKE COIL SUBSTITUDE 10µH J%	LC11033900
LI01		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
LI31 ~ LI34		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
LI35		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
LV01		nsp	CHOKE COIL SUBSTITUTE 6.8µH J%	LC16823900
LV02		LC14723900	CHOKE COIL 4.7UH EL0405	LC14723900
LV03		nsp	CHOKE COIL SUBSTITUDE 10µH J%	LC11033900
LV04		LC14723900	CHOKE COIL 4.7UH EL0405	LC14723900
LV05		LC11033900	CHOKE COIL SUBSTITUDE 10µH J%	LC11033900
LV06		LC14723900	CHOKE COIL 4.7UH EL0405	LC14723900

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
LV07		nsp	CHOKE COIL SUBSTITUDE 10µH J%	LC11033900
LV08		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
LV09 ≀ LV12		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
LY01		LC14723900	CHOKE COIL 4.7µH EL0405	LC14723900
LY02		LC15623900	CHOKE COIL SUBSTITUDE 5.6µH J%	LC15623900
LY03		nsp	FERRITE CORE CHIP BLM11B601S	FC90020110
LY04		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
LY05	/A/C/F/L/S		CHIP 0Ω ±5% 1/16W	NN05000610
SI01		SS01021010	SLIDE SWITCH SSSF12-S06N0 HORIZONTAL N-SHOT	SS01021010
			PS01-E1830POWER SUPPLY CIRCUIT BOARD	
			PS01-CAPACITORS	
⚠ CP01		DF17104630	FILM 0.1µF 250V	DF17104630
⚠ CP02		DF17104630	FILM 0.1µF 250V	DF17104630
⚠ CP03	/A/C/N/S	DK17221520	CER. 220pF 250V DE0910 B	DK17221520
⚠ CP03	/F/L/U		CER. 470pF 250V	DK17471520
⚠ CP04	/A/C/N/S	DK17221520	CER. 220pF 250V DE0910 B	DK17221520
⚠ CP04	/F/L/U		CER. 470pF 250V	DK17471520
⚠ CP05	/A/C/N/S	EA12740070	ELECT. 120µF 400V RE3-400V121MK9	EA12740070
⚠ CP05	/F/L/U		ELECT. 220µF 200V ELNA RJ4	EA227200P0
CP06		DK16151910	CER. 150pF 2KV DE0405-1B151K2K SHORT	DK16151910
CP07		nsp	ELECT. 22µF M 50V RA-2	OA22605020
⚠ CP12		DK17221520	CER. 220pF 250V	DK17221520
CP13		nsp	ELECT. 1µF M 50V RA-2	OA10505020
CP14		nsp	ELECT. 47µF M 50V RA-2	OA47605020
CP15		nsp	ELECT. 47µF M 50V RA-2	OA47605020
CP16		nsp	ELECT. 220µF M 10V RA-2	OA22701020
CP17		nsp	CER. 0.01µF Z 50V	DK18103310
CP18		nsp	CER. 0.01µF Z 50V	DK18103310
CP19		nsp	ELECT. 1000µF M 16V RA-2	OA10801620
CP20		nsp	ELECT. 470µF M 10V RA-2	OA47701020
CP21		nsp	ELECT. 1000µF 10V M RA-2	OA10801020
CP22		nsp	ELECT. 470µF M 10V RA-2	OA47701020
CP23		nsp	ELECT. 220µF M 10V RA-2	OA22701020
CP24		nsp	ELECT. 220µF M 25V RA-2	OA22702520
CP25		nsp	ELECT. 100µF M 16V RA-2	OA10701620
⚠ CP50		OA22802540	ELECT. 2200µF M 25V CILMIC ARS	OA22802540
⚠ CP51		OA22802540	ELECT. 2200µF M 25V CILMIC ARS	OA22802540
CP52		nsp	ELECT. 47µF M 16V RA-2	OA47601620
CP53		nsp	ELECT. 47µF M 16V RA-2	OA47601620
CP54		nsp	ELECT. 220µF M 16V RA-2	OA22701620
CP55		nsp	ELECT. 220µF M 16V RA-2	OA22701620
CP56		nsp	ELECT. 220µF M 10V RA-2	OA22701020
CP57		nsp	ELECT. 2200µF 16V	OA22801620
CP58		nsp	ELECT. 0.1 µF M 50V RA-2	OA10405020
CP59		nsp	ELECT. 10µF M 50V RA-2	OA10605020
CP60		nsp	ELECT. 100µF M 10V RA-2	OA10701020
CP61		nsp	ELECT. 47µF M 10V RA-2	OA47601020
			PS01-CAPACITORS (COMMON)	
C***			PLASTIC FILM CAPACITOR ±5% 50V : CP08-CP-11 CP27	

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
			PS01-RESISTORS	
⚠ RP01	/A/C/N/S	RC05105010	1MΩ ±5% 1W RCR60 L15	RC05105010
⚠ RP01	/F/L/U		2.2MΩ ±10% 1/2W FOR UL	RC10225820
⚠ RP01	/L1G		2.2MΩ ±10% 1/2W FOR UL	RC10225820
RP09		NK05470010	METAL 47Ω ±5% 1W	NK05470010
RP11		NK05100010	METAL 10Ω ±5% 1W	NK05100010
RP12		NL05222020	METAL 0.22Ω ±5% 2W	NL05222020
RP18		nsp	CHIP 470Ω ±5% 1/16W	NN05471610
RP19		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
RP20		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
RP21		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
RP22		nsp	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RP23		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RP33		NL05472020	METAL 0.47Ω ±5% 2W	NL05472020
RP50		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RP51		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
RP52		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
RP53		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RP54		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
RP55		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
RP56		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
RP57		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RP58		nsp	CHIP 3.3MΩ ±5% 1/16W	NN05335610
RP59		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RP60		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RP61		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
RP62		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RP63		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
			PV01-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RP02-RP10 RP13-RP17 RP25-RP29 RP31 RP32	
			PS01-SEMICONDUCTORS	
⚠ DP01		HD20031290	DIODE S1WB A 60 30A 600V	HD20031290
DP02		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DP03		nsp	ZENER DIODE 22V	HD32201000
⚠ DP04		HD20049080	DIODE AG01 400V 0.7A	HD20049080
DP05		nsp	ZENER DIODE 20V	HD32001000
DP06		nsp	ZENER DIODE 9.1V	HD30911000
⚠ DP07		HD20049080	DIODE AG01 400V 0.7A	HD20049080
DP08		nsp	ZENER DIODE 10V	HD31001000
DP09		nsp	ZENER DIODE 5.1V	HD30511000
DP10		nsp	ZENER DIODE 13V	HD31301000
⚠ DP11		HD20052080	DIODE RK33 SBD 30V 2.5A	HD20052080
⚠ DP12		HD20052080	DIODE RK33 SBD 30V 2.5A	HD20052080
⚠ DP14		HD20050080	DIODE RK46 SBD 60V 3.5A	HD20050080
DP15		HD20002710	DIODE 1D3 1A 200V	HD20002710
DP16		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
⚠ DP17		HD20053080	DIODE EK19 90V 1.5A	HD20053080
DP18		HD20002710	DIODE 1D3 1A 200V	HD20002710
DP19		nsp	ZENER DIODE 20V	HD32001000
DP20		nsp	ZENER DIODE 9.1V	HD30911000
DP21		HD20002710	DIODE 1D3 1A 200V	HD20002710
⚠ DP50 ⚠ ≀ ⚠ DP57		HD20002710	DIODE 1D3 1A 200V	HD20002710
DP58		HZ30025020	CHIP DIODE MA8039-H	HZ30025020
DP59		HZ30031050	CHIP DIODE ZENER 02CZ9.1-X	HZ30031050
DP60		HZ30031050	CHIP DIODE ZENER 02CZ9.1-X	HZ30031050
DP61		HD20002710	DIODE 1D3 1A 200V	HD20002710
DP62		HZ30031050	CHIP DIODE 1SS301 DAN202U	HZ21005000

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
DP63		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
DP64		HZ30007020	CHIP DIODE ZENER 5.6V MA8056L	HZ30007020
⚠ QP01		HF22943000	F.E.T. 2SK2943 900V 3A	HF22943000
QP02		HC10006130	IC FA3647 PWM CONTROL IC	HC10006130
⚠ QP03		nsp	PHOTO UNIT PC-123F2 PHOTO COUPLER	HW10032320
QP04		HC33036590	IC TL431CZ PROG.VOLTAGE REFERENCE	HC33036590
QP05		HT316272B0	TRS. 2SC1627 O Y 80V 300MA 600MW TO	HT316272B0
⚠ QP06		HC36903320	IC PQ3RF33 +3.3V 3.5A	HC36903320
⚠ QP07		HC10006080	IC SI-3050C +5V 1.5A SW	HC10006080
⚠ QP08		HC36912080	IC SI-3120F +12V 1A WITH SW	HC36912080
QP09		HT30001000	TRS. C2458 C1740S C3199 ETC.	HT30001000
QP50		BA20035210	DIG.TRS. DTC114EU	BA20035210
QP51		BA10026210	DIG.TRS. DTA114EU	BA10026210
QP52		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
QP53		nsp	TRS. 2SD1762 E F	HT417622B0
QP54		HT214531A0	TRS. 2SB1453 NEC	HT214531A0
⚠ QP55		HC38505090	IC NJM78M05FA	HC38505090
QP56		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
QP57		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
QP58		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
QP59		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
QP60		BA21311000	DIG.TRS. RN1311 DTC114TU	BA21311000
QP61		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
QP62		nsp	CHIP TRS. 2SA1586 Y GR 2SA1576A Q R	HX100012A0
⚠ QP63		HC36103090	IC NJU7200L33 3.3V 0.1A	HC36103090
			PS01-MISCELLANEOUS	
⚠ FP01	/A/C/N /S	FS10200850	FUSE 2 A 250V BS LISTED	FS10200850
⚠ FP01	/F/L/U		FUSE 2A 125V UL CSA MITI TYPE FBT	FS10200350
⚠ FP02		FS20025200	FUSE T250MA 250V TR5 NO.19372	FS20025200
⚠ FP03		FS20250200	FUSE T2.5A 250V TR5 NO.19372	FS20250200
⚠ FP50		FS20050200	FUSE T500MA 250V TR5 NO.19372	FS20050200
⚠ FP51		FS20050200	FUSE T500MA 250V TR5 NO.19372	FS20050200
LP01		nsp	CHOKE COIL 22mH x2 LINE FILTER	LC22260130
LP03		LC14734500	CHOKE COIL RCH-110 47µH 2.5A	LC14734500
LP50		nsp	CHOKE COIL SUBSTITUDE 10µH J%	LC11033900
⚠ TP01		TS12900080	MAINS TRANSF. SW ER28S	TS12900080
⚠ TP50	/A/C/N /S	TS14159030	MAINS TRANSF. PE4124 AUDIO N S C A	TS14159030
⚠ TP50	/F		MAINS TRANSF. PE4124 AUDIO FOR F	TS14159010
⚠ TP50	/L/U		MAINS TRANSF. PE4124 AUDIO FOR L U	TS14159020

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
			PS02-POWER SWITCH CIRCUIT BOARD	
⚠ SP01		SP01013800	PUSH SWITCH MAINS POWER ESB92S17B	SP01013800

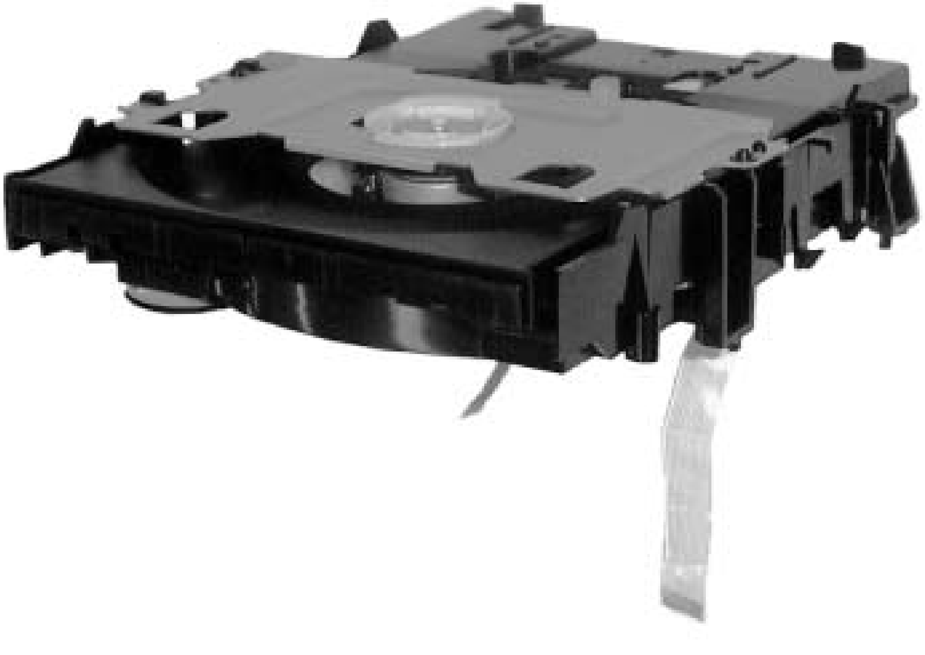
NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

Service Manual

DB-VLD302

DVD Loader for MARANTZ

DVD Player : DV8300



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2. DB-VLD302 (DVD Loader for MARANTZ)
 2.1 LOARDING MECHANISM ASS'Y AND LOAB PCB ASS'Y 2-2
 2.2 TRAVERSE MECHANISM ASS'Y... 2-5

Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

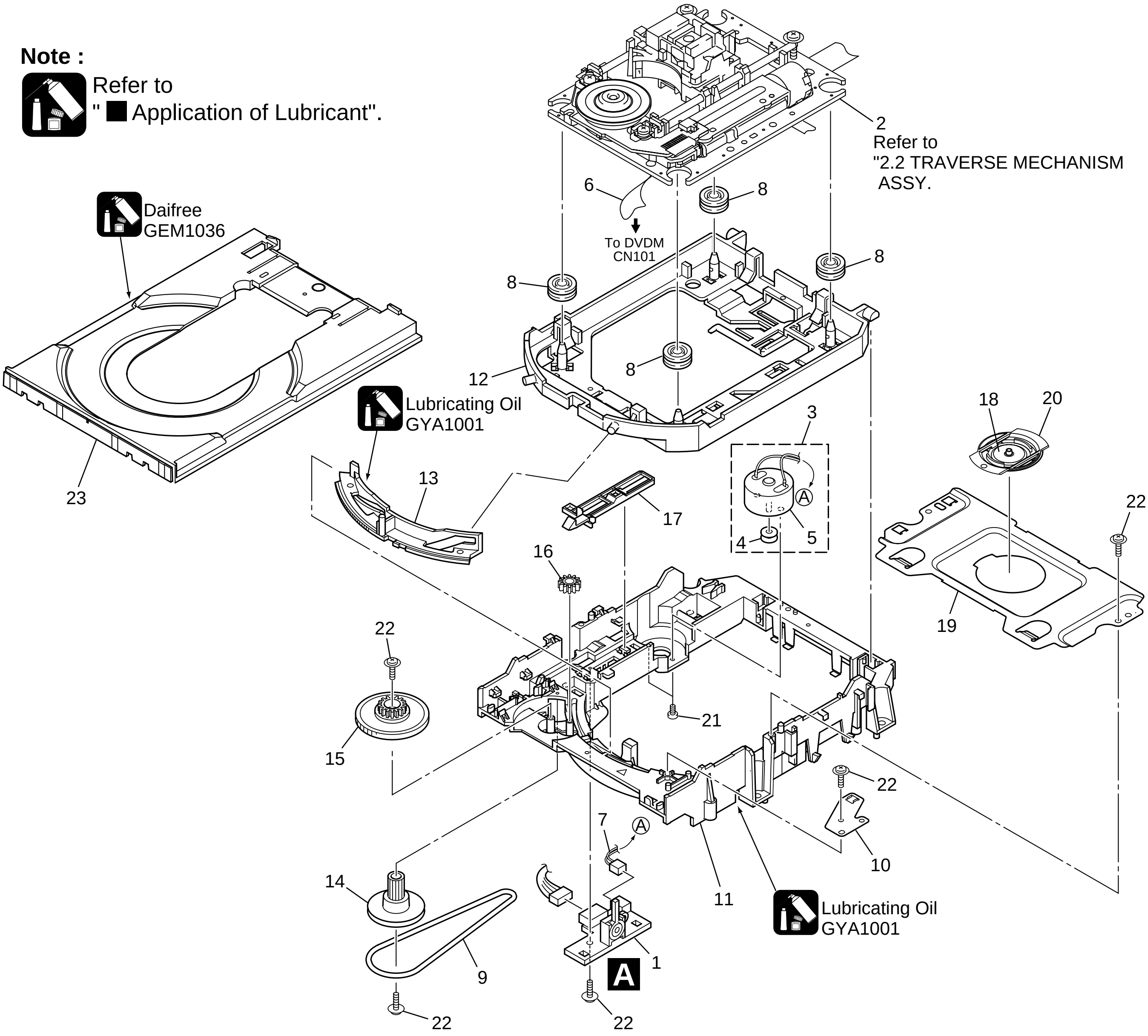
DB-VLD302

First Issue 2002.06

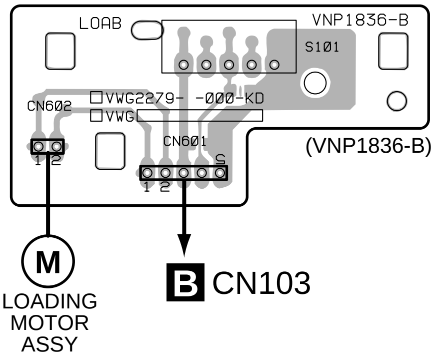
2. 1 LOADING MECHANISM ASS'Y AND LOAB PCB ASS'Y

Note :

Refer to
" ■ Application of Lubricant".

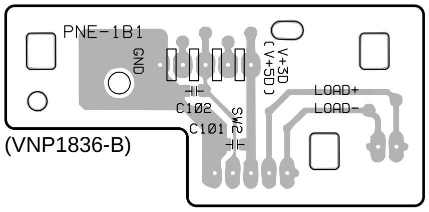

2
Refer to
"2.2 TRAVERSE MECHANISM
ASSY.
6
To DVDM
CN101
8
8
8
8
Daifree
GEM1036
12
Lubricating Oil
GYA1001
13
23
17
16
3
A
4
5
18
20
22
19
22
15
21
22
7
A
10
11
14
9
1
A
Lubricating Oil
GYA1001
22
22

A LOAB ASSY


LOAB
VNP1836-B
S101
CN602
☐VWG2279- -000-KD
☐VWG
CN601
1 2
1 2
5
(VNP1836-B)
M
LOADING
MOTOR
ASSY
B CN103

SIDE A

A LOAB ASSY

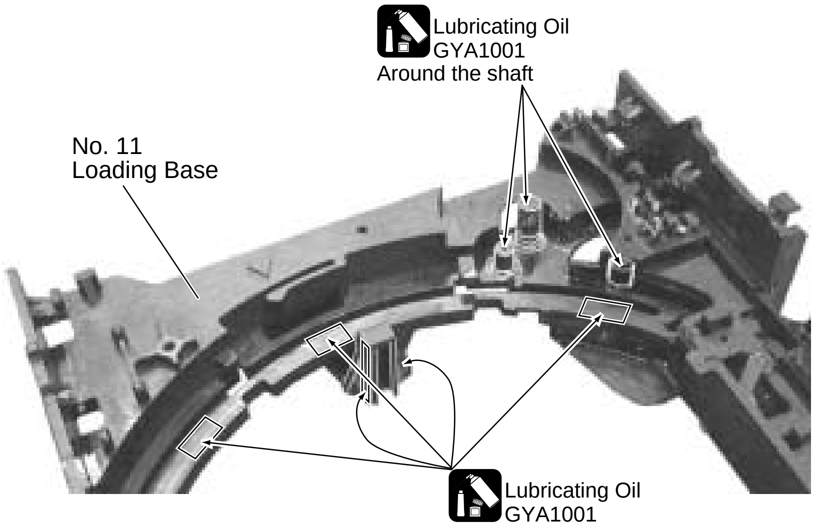

PNE-1B1
GND
(V+3D)
(V+5D)
LOAD+
LOAD-
C102
C101
SW2
(VNP1836-B)

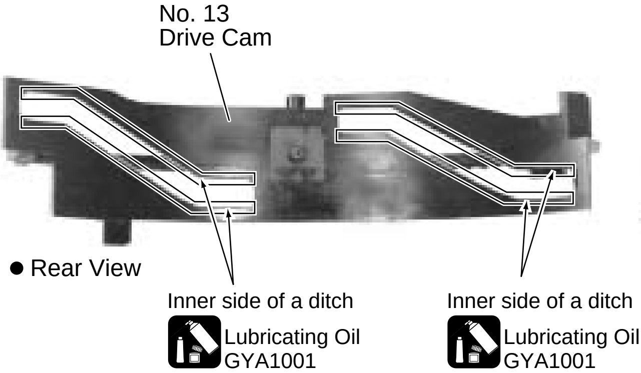
SIDE B

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
				LOADING MECHANISM ASSY	
1		nsp	nsp	LOAB Assy	VWG2279
2		*ZK000340R	*ZK000340R	Traverse Mechanism Assy-S	VXX2782
3		*ZZ001600R	*ZZ001600R	Loading Motor Assy	VXX2505
4		02AK262010	02AK262010	Motor Pulley	PNW1634
5		nsp	nsp	Carriage DC Motor / 0.3W	PXM1027
6		*YU001000R	*YU001000R	Flexible Cable (26P)	VDA1884
7		nsp	nsp	Connector Assy 2P	VKP2253
8		02AK130010	02AK130010	Float Rubber	VEB1327
9		02AK264010	02AK264010	Belt	VEB1330
10		02AK002010	02AK002010	Stabilizer	VNE2253
11		02AK105050	02AK105050	Loading Base	VNL1917
12		02AK104010	02AK104010	Float Base DVD	VNL1918
13		02AK054010	02AK054010	Drive Cam	VNL1919
14		02AK262020	02AK262020	Gear Pulley	VNL1921
15		02AK058010	02AK058010	Loading Gear	VNL1922
16		02AK058020	02AK058020	Drive Gear	VNL1923
17		02AK354010	02AK354010	SW Lever	VNL1925
18		02AK104020	02AK104020	Clamper Plate	VNE2251
19		02AK126010	02AK126010	Bridge	VNE2252
20		02AK005010	02AK005010	Clamper	VNL1924
21		nsp	nsp	Screw	JGZ17P028FMC
22		nsp	nsp	Screw	Z39-019
23		02AK163010	02AK163010	Tray	VNL1920
				LOAB ASSY	
S101		*SM000340R	*SM000340R	REAF SWITCH	VSK1011
CN602		nsp	nsp	CONNECTOR	S2B-PH-K
CN601		nsp	nsp	CONNECTOR	S5B-PH-K
		nsp	nsp	PRINTED CIRCUIT BOARD	VNP1836

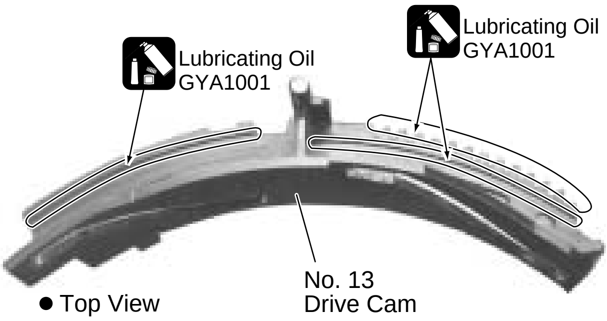
NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

■ Application of Lubricant

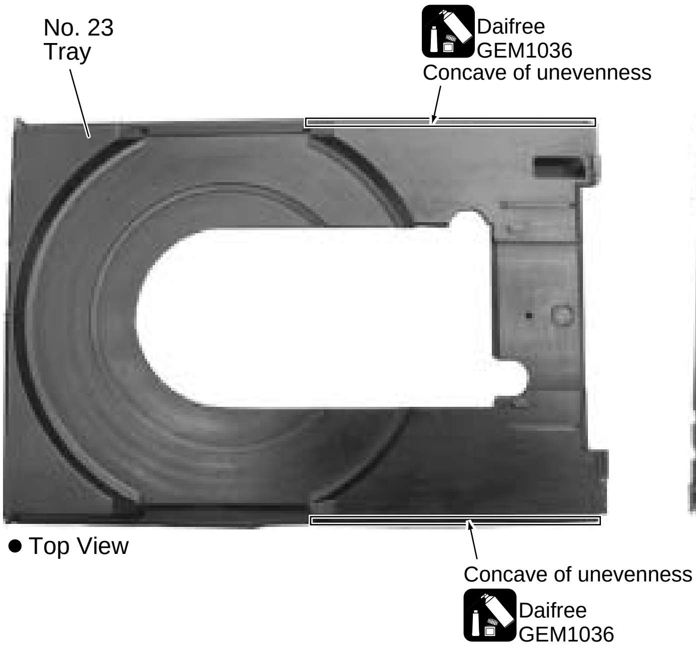

Lubricating Oil
GYA1001
Around the shaft
No. 11
Loading Base
Lubricating Oil
GYA1001


No. 13
Drive Cam
Inner side of a ditch
Lubricating Oil
GYA1001
Inner side of a ditch
Lubricating Oil
GYA1001

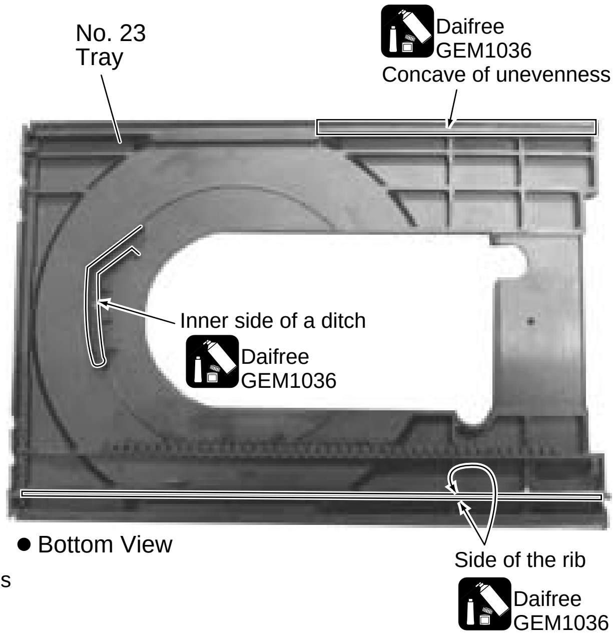
● Rear View


Lubricating Oil
GYA1001
Lubricating Oil
GYA1001
No. 13
Drive Cam

● Top View

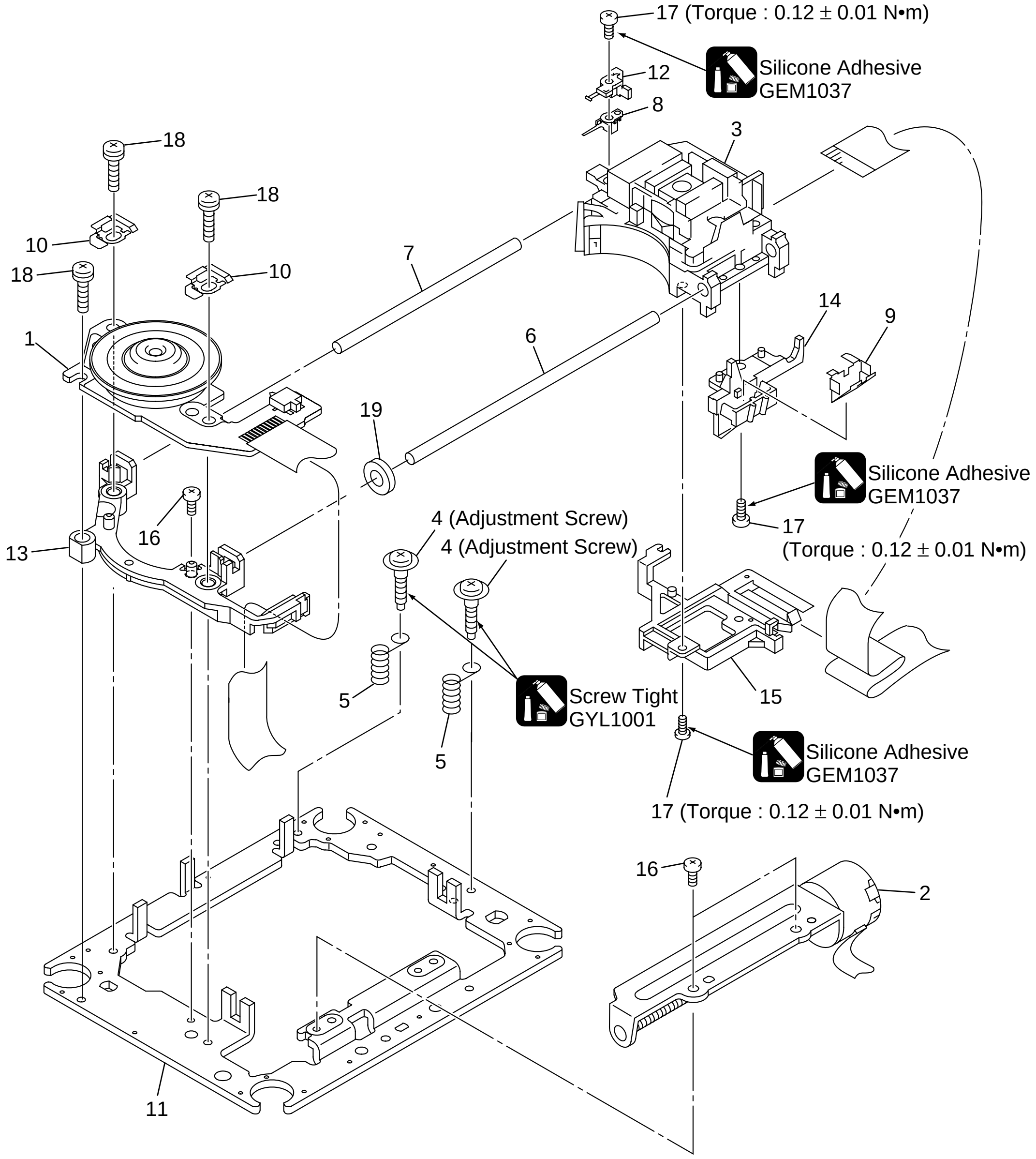

No. 23
Tray
Daifree
GEM1036
Concave of unevenness
Concave of unevenness
Daifree
GEM1036

● Top View


No. 23
Tray
Daifree
GEM1036
Concave of unevenness
Inner side of a ditch
Daifree
GEM1036
Side of the rib
Daifree
GEM1036

● Bottom View

2. 2 TRAVERSE MECHANISM ASS’Y


17 (Torque : 0.12 ± 0.01 N•m)
Silicone Adhesive
GEM1037
12
8
3
18
18
10
18
10
7
14
9
1
6
19
Silicone Adhesive
GEM1037
4 (Adjustment Screw)
4 (Adjustment Screw)
17
(Torque : 0.12 ± 0.01 N•m)
13
16
Screw Tight
GYL1001
5
15
5
Silicone Adhesive
GEM1037
17 (Torque : 0.12 ± 0.01 N•m)
16
2
11

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
				TRAVERSE MECHANISM ASSY (P/N : *ZK000340R)	
1		nsp	nsp	Spindle Motor	VXM1089
2		nsp	nsp	Stepping Motor (CARRIAGE)	VXM1091
3		nsp	nsp	Pickup Assy-S	OXX8003
4		nsp	nsp	Skew Screw	VBA1080
5		nsp	nsp	Skew Spring	VBH1335
6		nsp	nsp	Guide Bar	VLL1514
7		nsp	nsp	Sub Guide Bar	VLL1515
8		nsp	nsp	Hold Spring	VNC1017
9		nsp	nsp	Joint Spring	VNC1019
10		nsp	nsp	Support Spring	VNC1020
11		nsp	nsp	Mechanism Chassis	VNE2248
12		nsp	nsp	Slider	VNL1811
13		nsp	nsp	Spacer	VNL1913
14		nsp	nsp	Joint	VNL1914
15		nsp	nsp	FFC Holder	VNL1915
16		nsp	nsp	Screw	BBZ20P050FZK
17		nsp	nsp	Screw	OBA8009
18		nsp	nsp	Screw	PMA26P100FMC
19		nsp	nsp	Damper Sheet	VEB1335

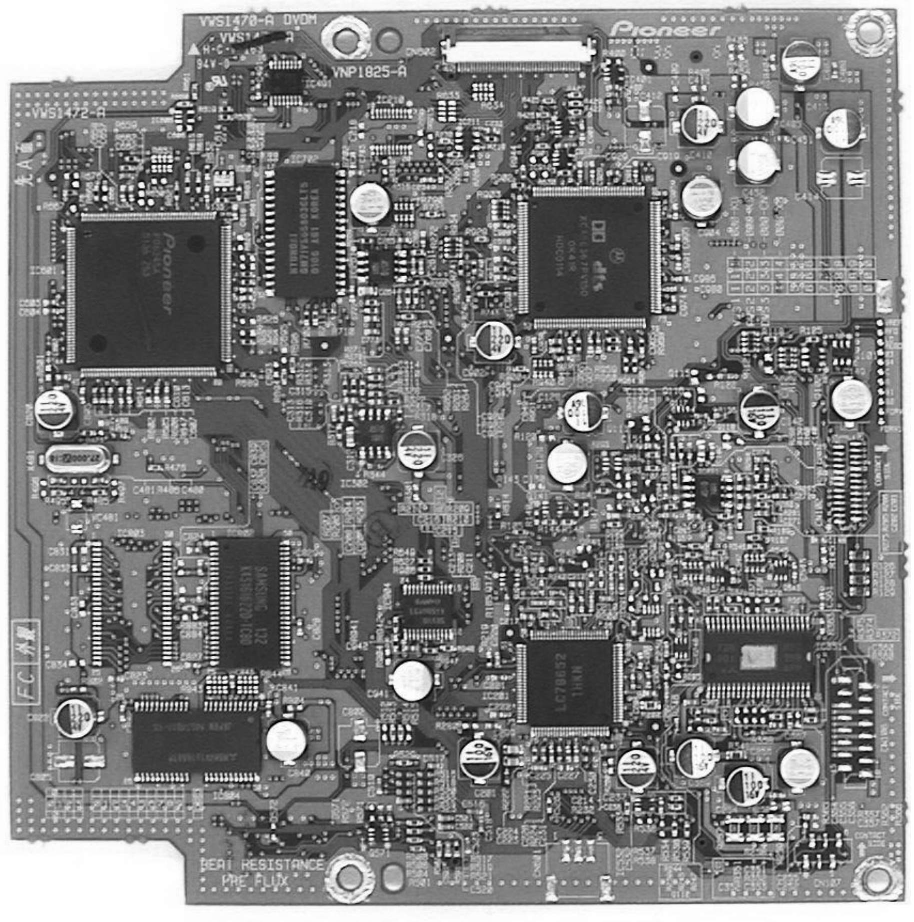
NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

Service Manual

DB-VPB305

DVD PCB Module for MARANTZ

DVD Player : DV8300



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3.1 DIAGRAMS (BLOCK, WIRING, SCHEMATIC, WAVEFORMS) 3-2

3.2 PCB CONNECTION DIAGRAM.. 3-15

3.3 GENERAL INFOMATION (ID NUMBER., DISASSEMBLY., IC DATA)...................................... 3-18

3.4 PCB PARTS LIST... 3-45

When you repair the DVDM PCB, please be sure to write down the ID number.
この基板（DVDM）を修理するときは必ず ID ナンバーを書き留めておいて下さい。

Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

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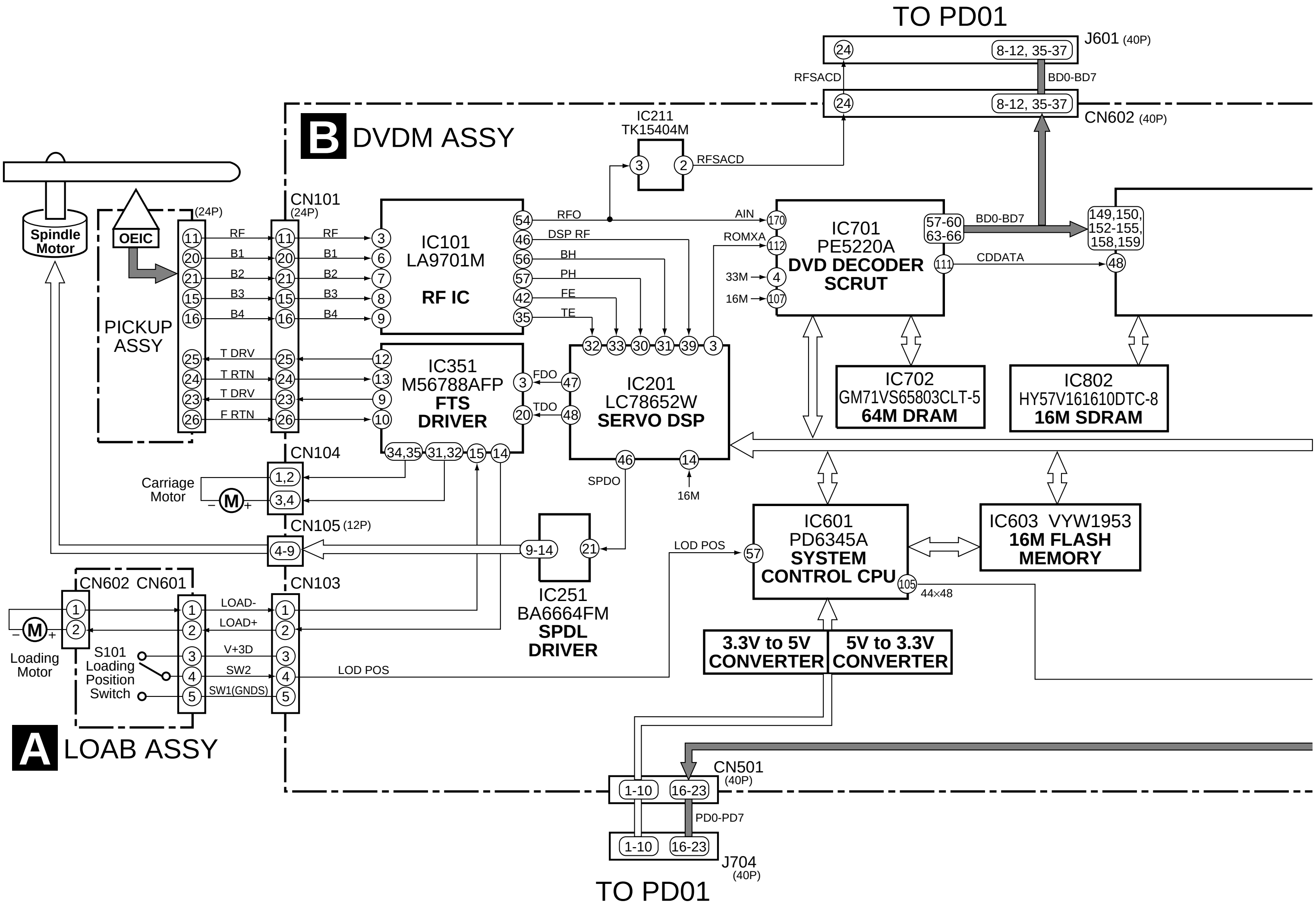
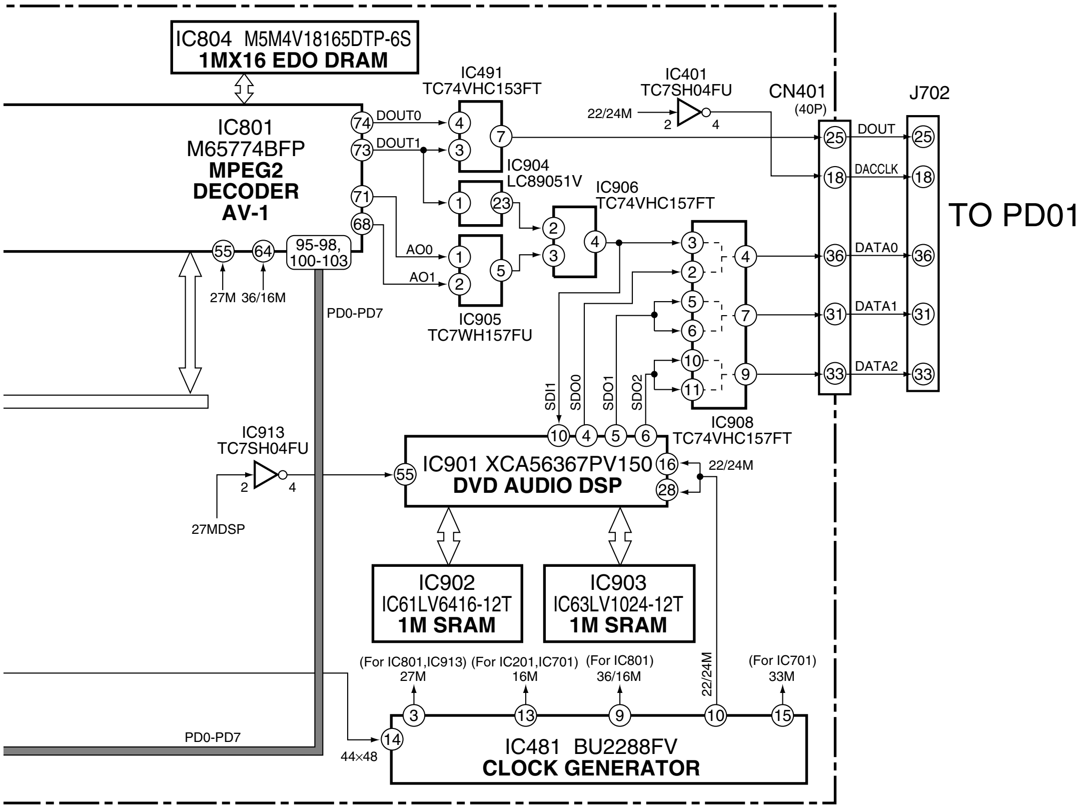
DB-VPB305

First Issue 2002.06

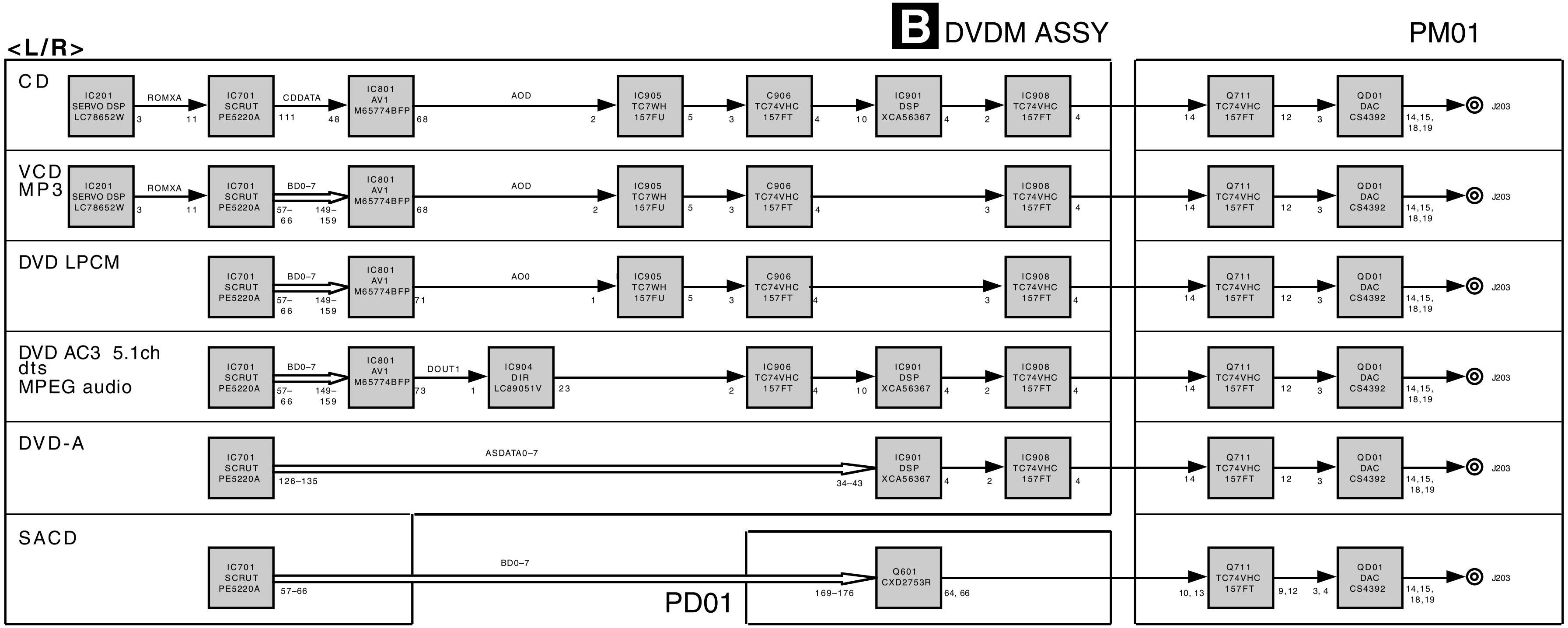
3.1 BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

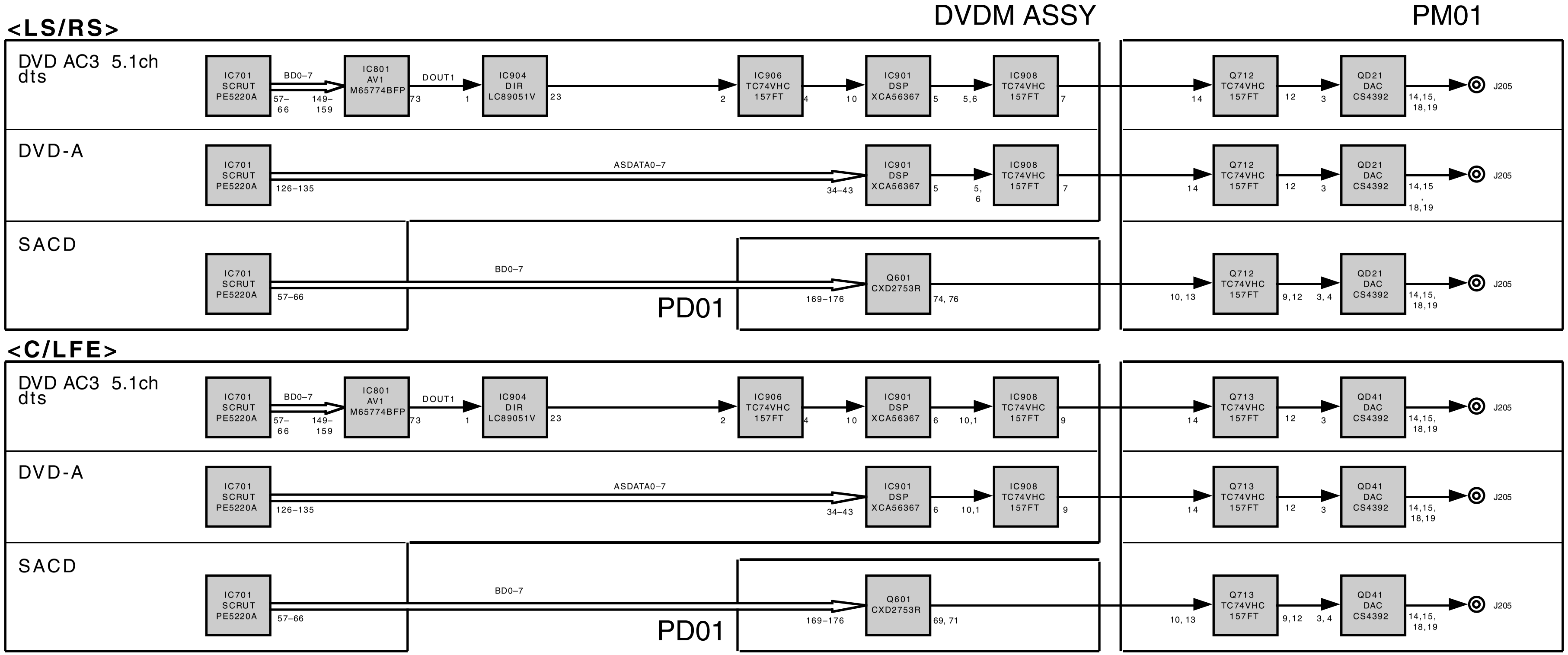
BLOCK DIAGRAM


TO PD01
J601 (40P)
24
8-12, 35-37
RFSACD
BD0-BD7
CN602 (40P)
B DVDM ASSY
IC211
TK15404M
3
2
RFSACD
Spindle Motor
OEIC
(24P)
CN101 (24P)
PICKUP ASSY
RF
B1
B2
B3
B4
T DRV
T RTN
T DRV
F RTN
11
20
21
15
16
25
24
23
26
IC101
LA9701M
RF IC
54
46
56
57
42
35
RFO
DSP RF
BH
PH
FE
TE
AIN
ROMXA
IC701
PE5220A
DVD DECODER
SCRUT
170
112
33M
4
16M
107
57-60
63-66
111
BD0-BD7
CDDATA
149,150,
152-155,
158,159
48
IC351
M56788AFP
FTS
DRIVER
12
13
9
10
3
20
FDO
TDO
47
48
IC201
LC78652W
SERVO DSP
32
33
30
31
39
3
46
14
SPDO
16M
34,35
31,32
15
14
CN104
1,2
3,4
Carriage Motor
M
CN105 (12P)
4-9
9-14
21
IC251
BA6664FM
SPDL
DRIVER
IC702
GM71VS65803CLT-5
64M DRAM
IC802
HY57V161610DTC-8
16M SDRAM
IC601
PD6345A
SYSTEM
CONTROL CPU
57
105
LOD POS
44×48
IC603 VYW1953
16M FLASH
MEMORY
3.3V to 5V
CONVERTER
5V to 3.3V
CONVERTER
CN602
CN601
CN103
1
2
3
4
5
LOAD-
LOAD+
V+3D
SW2
SW1(GNDS)
LOD POS
M
Loading Motor
S101
Loading
Position
Switch
A LOAB ASSY
CN501 (40P)
1-10
16-23
PD0-PD7
J704 (40P)
TO PD01

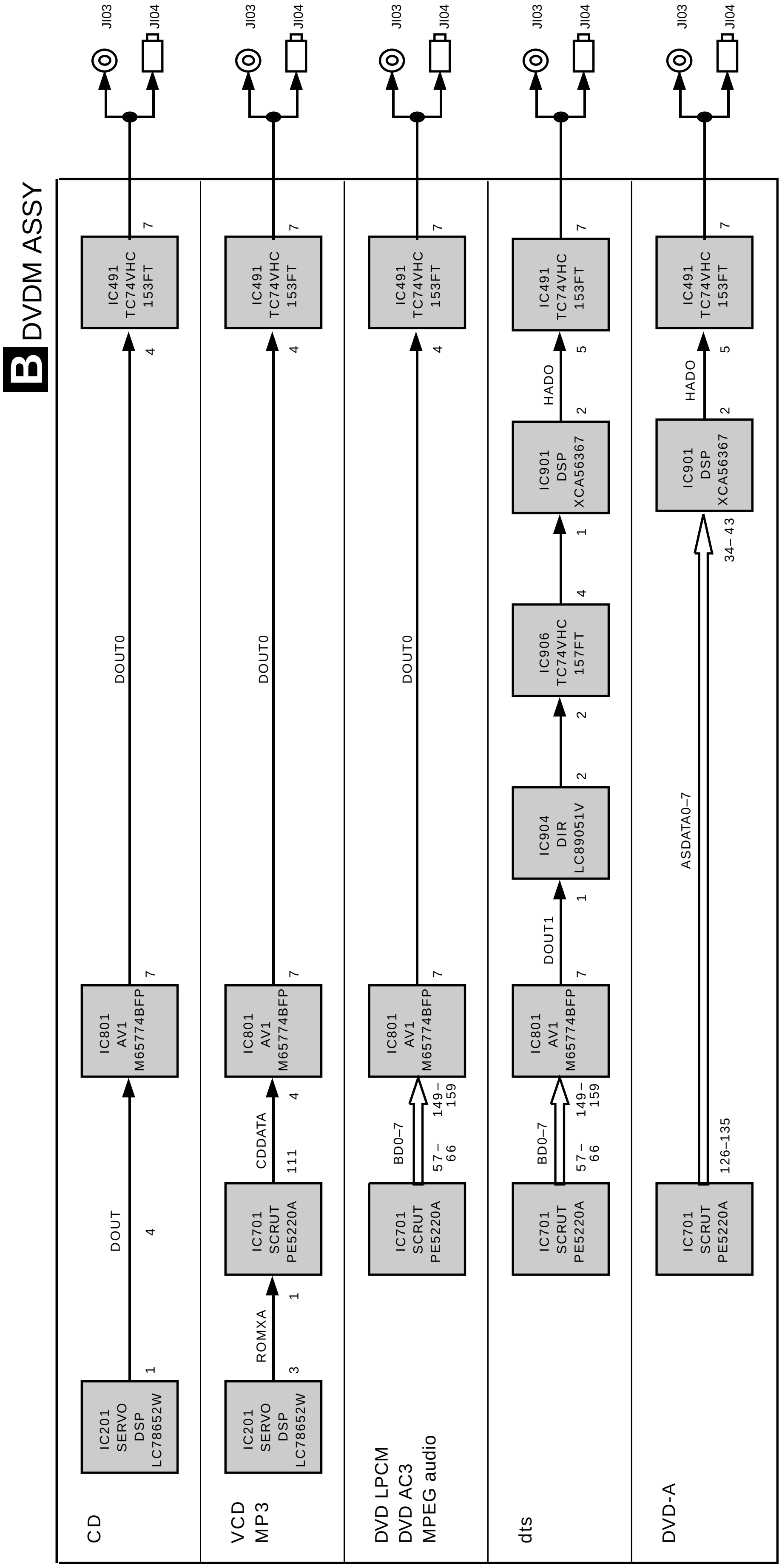

IC804 M5M4V18165DTP-6S
1MX16 EDO DRAM
IC801
M65774BFP
MPEG2
DECODER
AV-1
74
73
71
68
DOUT0
DOUT1
55
64
95-98,
100-103
27M
36/16M
PD0-PD7
IC491
TC74VHC153FT
4
3
7
IC904
LC89051V
1
23
AO0
AO1
1
2
5
IC905
TC7WH157FU
IC906
TC74VHC157FT
2
3
4
IC401
TC7SH04FU
22/24M
2
4
CN401
(40P)
J702
DOUT
DACCLK
DATA0
DATA1
DATA2
25
18
36
31
33
TO PD01
3
2
5
6
10
11
4
7
9
IC908
TC74VHC157FT
SDI1
SDO0
SDO1
SDO2
10
4
5
6
IC913
TC7SH04FU
2
4
27MDSP
IC901 XCA56367PV150
DVD AUDIO DSP
55
16
28
22/24M
IC902
IC61LV6416-12T
1M SRAM
IC903
IC63LV1024-12T
1M SRAM
(For IC801,IC913)
27M
(For IC201,IC701)
16M
(For IC801)
36/16M
22/24M
(For IC701)
33M
3
13
9
10
15
14
44×48
PD0-PD7
IC481 BU2288FV
CLOCK GENERATOR

AUDIO DATA STREAM (ANALOG OUTPUT)

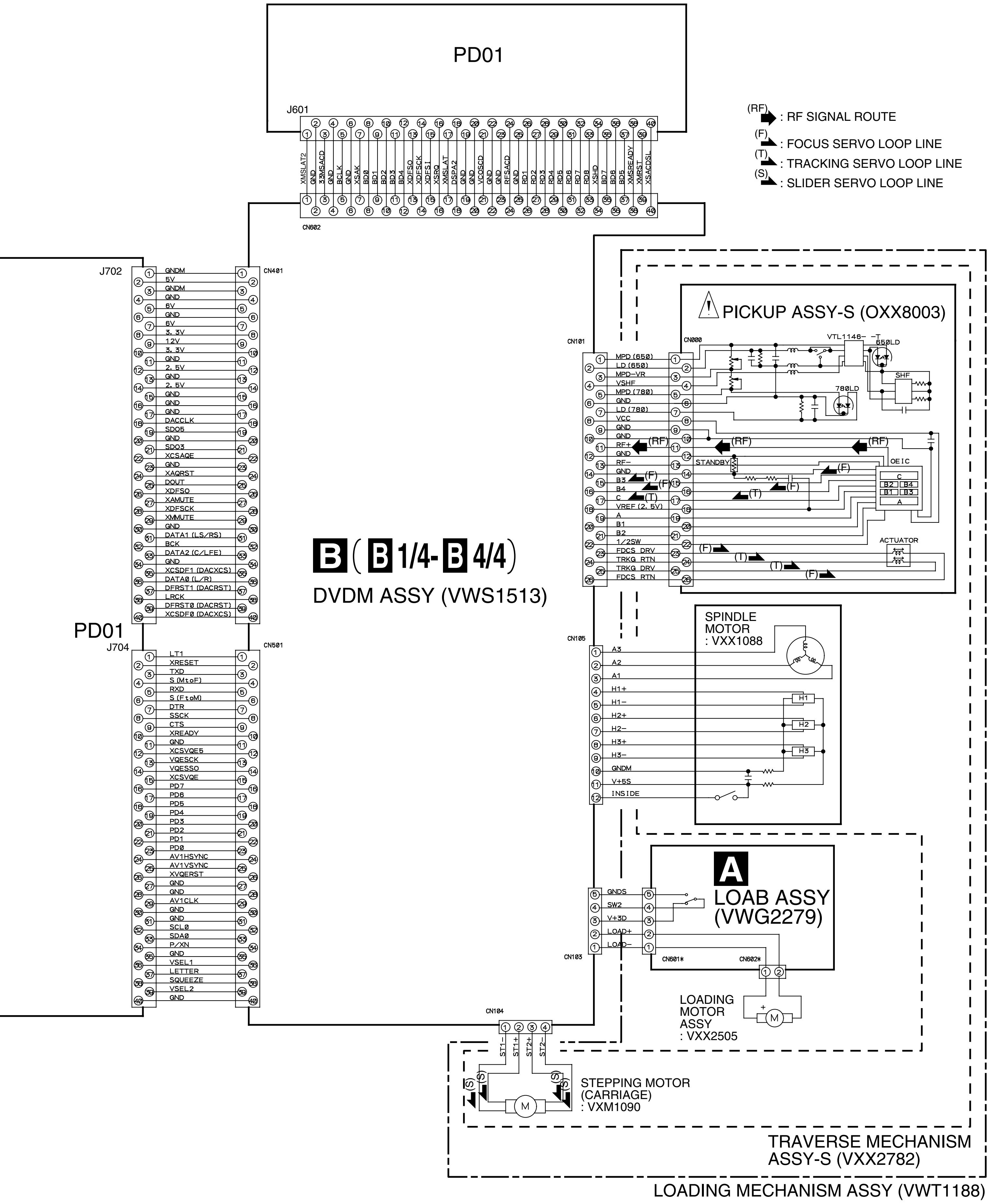

<L/R>
B DVDM ASSY
PM01
PD01
CD
IC201 SERVO DSP LC78652W
ROMXA
3
11
IC701 SCRUT PE5220A
CDDATA
111
48
IC801 AV1 M65774BFP
68
AOD
2
IC905 TC7WH 157FU
5
3
C906 TC74VHC 157FT
4
10
IC901 DSP XCA56367
4
2
IC908 TC74VHC 157FT
4
14
Q711 TC74VHC 157FT
12
3
QD01 DAC CS4392
14,15, 18,19
J203
VCD MP3
IC201 SERVO DSP LC78652W
ROMXA
3
11
IC701 SCRUT PE5220A
BD0–7
57– 66
149– 159
IC801 AV1 M65774BFP
68
AOD
2
IC905 TC7WH 157FU
5
3
C906 TC74VHC 157FT
4
3
IC908 TC74VHC 157FT
4
14
Q711 TC74VHC 157FT
12
3
QD01 DAC CS4392
14,15, 18,19
J203
DVD LPCM
IC701 SCRUT PE5220A
BD0–7
57– 66
149– 159
IC801 AV1 M65774BFP
71
AO0
1
IC905 TC7WH 157FU
5
3
C906 TC74VHC 157FT
4
3
IC908 TC74VHC 157FT
4
14
Q711 TC74VHC 157FT
12
3
QD01 DAC CS4392
14,15, 18,19
J203
DVD AC3 5.1ch dts MPEG audio
IC701 SCRUT PE5220A
BD0–7
57– 66
149– 159
IC801 AV1 M65774BFP
73
DOUT1
1
IC904 DIR LC89051V
23
2
IC906 TC74VHC 157FT
4
10
IC901 DSP XCA56367
4
2
IC908 TC74VHC 157FT
4
14
Q711 TC74VHC 157FT
12
3
QD01 DAC CS4392
14,15, 18,19
J203
DVD-A
IC701 SCRUT PE5220A
126–135
ASDATA0–7
34–43
IC901 DSP XCA56367
4
2
IC908 TC74VHC 157FT
4
14
Q711 TC74VHC 157FT
12
3
QD01 DAC CS4392
14,15, 18,19
J203
SACD
IC701 SCRUT PE5220A
57–66
BD0–7
169–176
Q601 CXD2753R
64, 66
10, 13
Q711 TC74VHC 157FT
9,12
3, 4
QD01 DAC CS4392
14,15, 18,19
J203


DVDM ASSY
PM01
<LS/RS>
DVD AC3 5.1ch dts
IC701 SCRUT PE5220A
BD0–7
57–66
149–159
IC801 AV1 M65774BFP
73
DOUT1
1
IC904 DIR LC89051V
23
2
IC906 TC74VHC 157FT
4
10
IC901 DSP XCA56367
5
5,6
IC908 TC74VHC 157FT
7
14
Q712 TC74VHC 157FT
12
3
QD21 DAC CS4392
14,15, 18,19
J205
DVD-A
IC701 SCRUT PE5220A
126–135
ASDATA0–7
34–43
IC901 DSP XCA56367
5
5, 6
IC908 TC74VHC 157FT
7
14
Q712 TC74VHC 157FT
12
3
QD21 DAC CS4392
14,15 , 18,19
J205
SACD
IC701 SCRUT PE5220A
57–66
BD0–7
PD01
169–176
Q601 CXD2753R
74, 76
10, 13
Q712 TC74VHC 157FT
9,12
3, 4
QD21 DAC CS4392
14,15, 18,19
J205
<C/LFE>
DVD AC3 5.1ch dts
IC701 SCRUT PE5220A
BD0–7
57–66
149–159
IC801 AV1 M65774BFP
73
DOUT1
1
IC904 DIR LC89051V
23
2
IC906 TC74VHC 157FT
4
10
IC901 DSP XCA56367
6
10,1
IC908 TC74VHC 157FT
9
14
Q713 TC74VHC 157FT
12
3
QD41 DAC CS4392
14,15, 18,19
J205
DVD-A
IC701 SCRUT PE5220A
126–135
ASDATA0–7
34–43
IC901 DSP XCA56367
6
10,1
IC908 TC74VHC 157FT
9
14
Q713 TC74VHC 157FT
12
3
QD41 DAC CS4392
14,15, 18,19
J205
SACD
IC701 SCRUT PE5220A
57–66
BD0–7
PD01
169–176
Q601 CXD2753R
69, 71
10, 13
Q713 TC74VHC 157FT
9,12
3, 4
QD41 DAC CS4392
14,15, 18,19
J205

AUDIO DATA STREAM (COAXIAL/OPTICAL OUTPUT)


B DVDM ASSY
CD
IC201 SERVO DSP LC78652W
1
DOUT
4
IC801 AV1 M65774BFP
7
DOUT0
4
IC491 TC74VHC 153FT
7
JI03
JI04
VCD
MP3
3
ROMXA
1
IC701 SCRUT PE5220A
111
CDDATA
DVD LPCM
DVD AC3
MPEG audio
BD0–7
57–66
149–159
dts
DOUT1
IC904 DIR LC89051V
2
IC906 TC74VHC 157FT
IC901 DSP XCA56367
HADO
5
DVD-A
126–135
ASDATA0–7
34–43

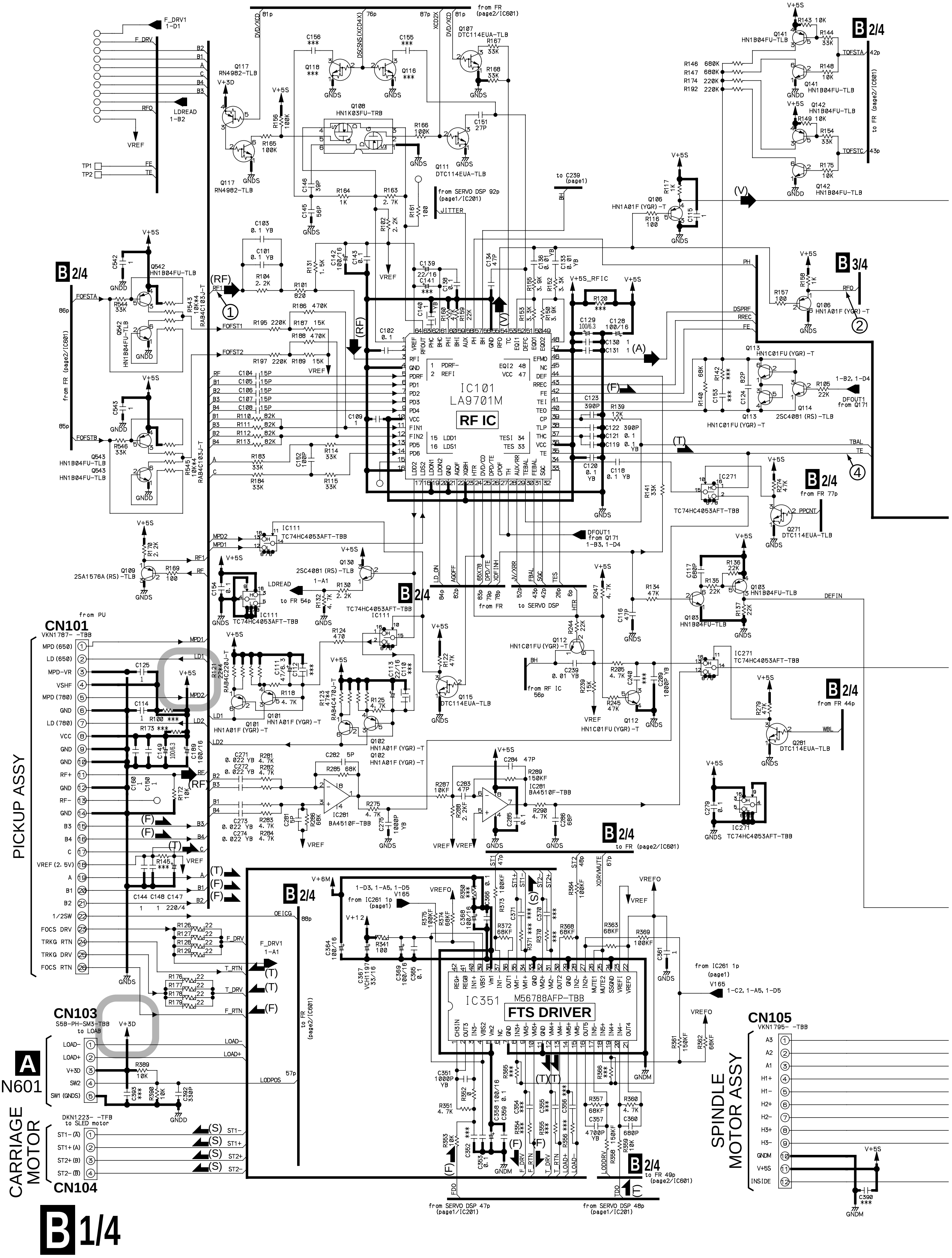
SCHEMATIC DIAGRAM


PD01
J601
CN602
XMSLAT2 GND 33MSACD GND BCLK GND XSAK BD0 BD1 BD2 BD3 BD4 XDFSO XDFSCK XDFSI XSRQ XMSLAT DSPA2 GND GND VCOSCD GND GND RFSACD GND RD1 RD2 RD3 RD4 RD5 RD6 RD7 RD8 XSHD BD7 BD6 BD5 XMSREADY XMRST XSACDSL
(RF) : RF SIGNAL ROUTE
(F) : FOCUS SERVO LOOP LINE
(T) : TRACKING SERVO LOOP LINE
(S) : SLIDER SERVO LOOP LINE
J702
CN401
GNDM 5V GNDM GND 6V GND 6V 3.3V 12V 3.3V GND 2.5V GND 2.5V GND GND GND DACCLK SDO5 GND SDO3 XCSAQE GND XAQRST DOUT XDFSO XAMUTE XDFSCK XMMUTE GND DATA1 (LS/RS) BCK DATA2 (C/LFE) GND XCSDF1 (DACXCS) DATA0 (L/R) DFRST1 (DACRST) LRCK DFRST0 (DACRST) XCSDF0 (DACXCS)
PD01
J704
CN501
LT1 XRESET TXD S (MtoF) RXD S (FtoM) DTR SSCK CTS XREADY GND XCSVQES VQESCK VQESSO XCSVQE PD7 PD6 PD5 PD4 PD3 PD2 PD1 PD0 AV1HSYNC AV1VSYNC XVQERST GND GND AV1CLK GND GND SCL0 SDA0 P/XN GND VSEL1 LETTER SQUEEZE VSEL2 GND
B (B 1/4- B 4/4)
DVDM ASSY (VWS1513)
PICKUP ASSY-S (OXX8003)
CN101
CN000
VTL1146- -T
650LD
780LD
SHF
MPD (650) LD (650) MPD-VR VSHF MPD (780) GND LD (780) VCC GND GND RF+ GND RF- GND B3 B4 C VREF (2.5V) A B1 B2 1/2SW FDCS DRV TRKG RTN TRKG DRV FDCS RTN
(RF)
(F)
(T)
STANDBY
OEIC
C B2 B4 B1 B3 A
ACTUATOR
CN105
SPINDLE MOTOR : VXX1088
A3 A2 A1 H1+ H1- H2+ H2- H3+ H3- GNDM V+5S INSIDE
H1 H2 H3
A
LOAB ASSY (VWG2279)
CN103
GNDS SW2 V+3D LOAD+ LOAD-
CN601*
CN602*
LOADING MOTOR ASSY : VXX2505
M
CN104
ST1- ST1+ ST2+ ST2-
(S)
STEPPING MOTOR (CARRIAGE) : VXM1090
M
TRAVERSE MECHANISM ASSY-S (VXX2782)
LOADING MECHANISM ASSY (VWT1188)

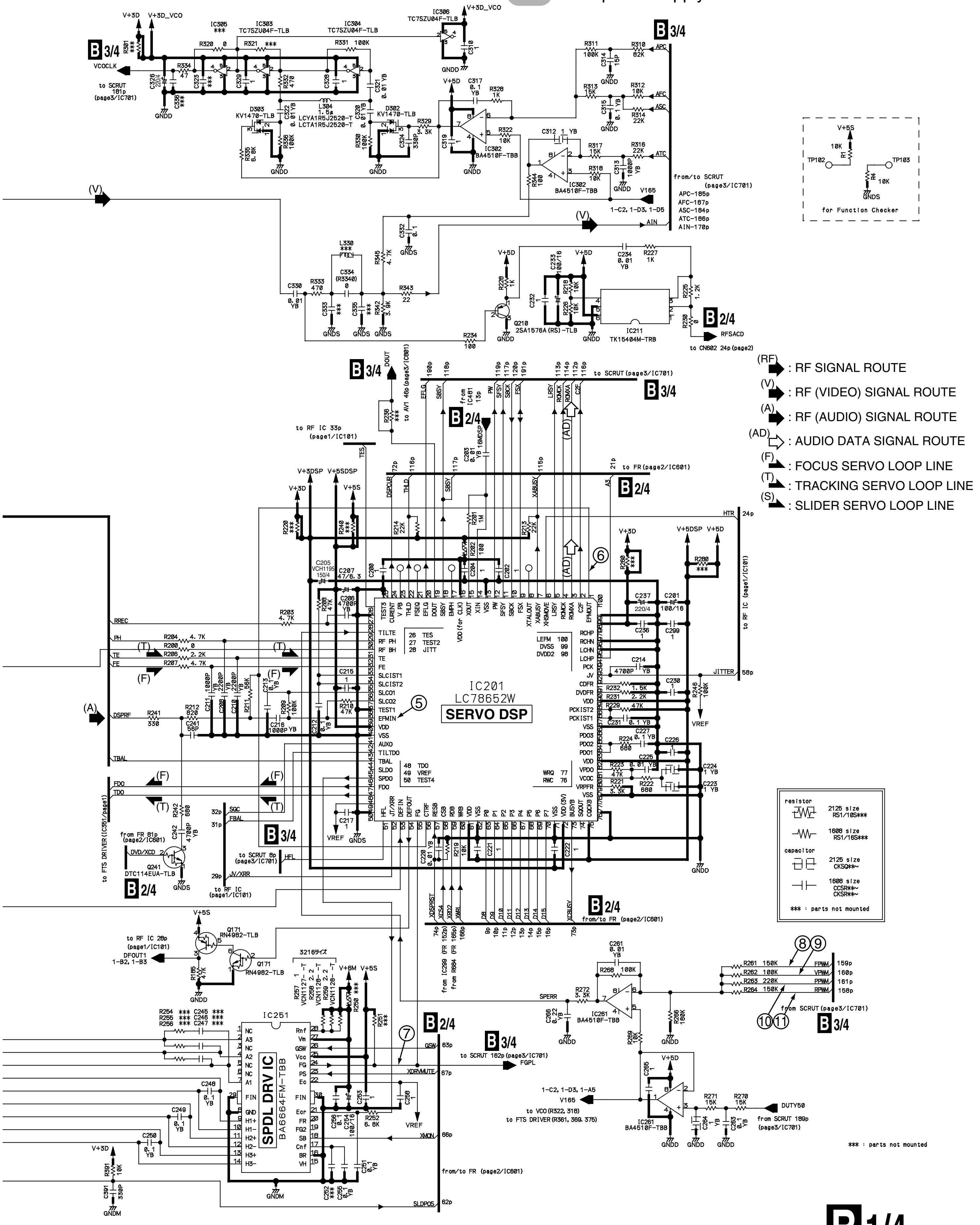
A

DVDM ASSY (1/4)

B 1/4 DVDM ASSY (VWS1513)


IC101
LA9701M
RF IC
IC351
M56788AFP-TBB
FTS DRIVER
IC111
TC74HC4053AFT-TBB
IC271
TC74HC4053AFT-TBB
IC281
BA4510F-TBB
CN101
VKN1787- -TBB
from PU
PICKUP ASSY
CN103
S5B-PH-SM3-TBB
to LOAD
A
CN601
CN104
DKN1223- -TFB
to SLED motor
CARRIAGE MOTOR
CN105
VKN1795- -TBB
SPINDLE MOTOR ASSY
B 2/4
B 3/4
B 1/4
from FR (page2/IC601)
to FR (page2/IC601)
from SERVO DSP 92p (page1/IC201)
from SERVO DSP 47p (page1/IC201)
from SERVO DSP 48p (page1/IC201)
from IC261 1p (page1)
MPD (650)
LD (650)
MPD-VR
VSHF
MPD (780)
GND
LD (780)
VCC
RF+
RF-
B3
B4
C
VREF (2.5V)
A
B1
B2
1/2SW
FOCS DRV
TRKG RTN
TRKG DRV
FOCS RTN
LOAD-
LOAD+
V+3D
SW2
SW1 (GNDS)
ST1-(A)
ST1+(A)
ST2+(B)
ST2-(B)
A3
A2
A1
H1+
H1-
H2+
H2-
H3+
H3-
GNDM
V+5S
INSIDE
JITTER
DFOUT1
TBAL
PPCNT
WBL
DEFIN
EQ12
VCC
TESI
TES
RFENV
RFOUT

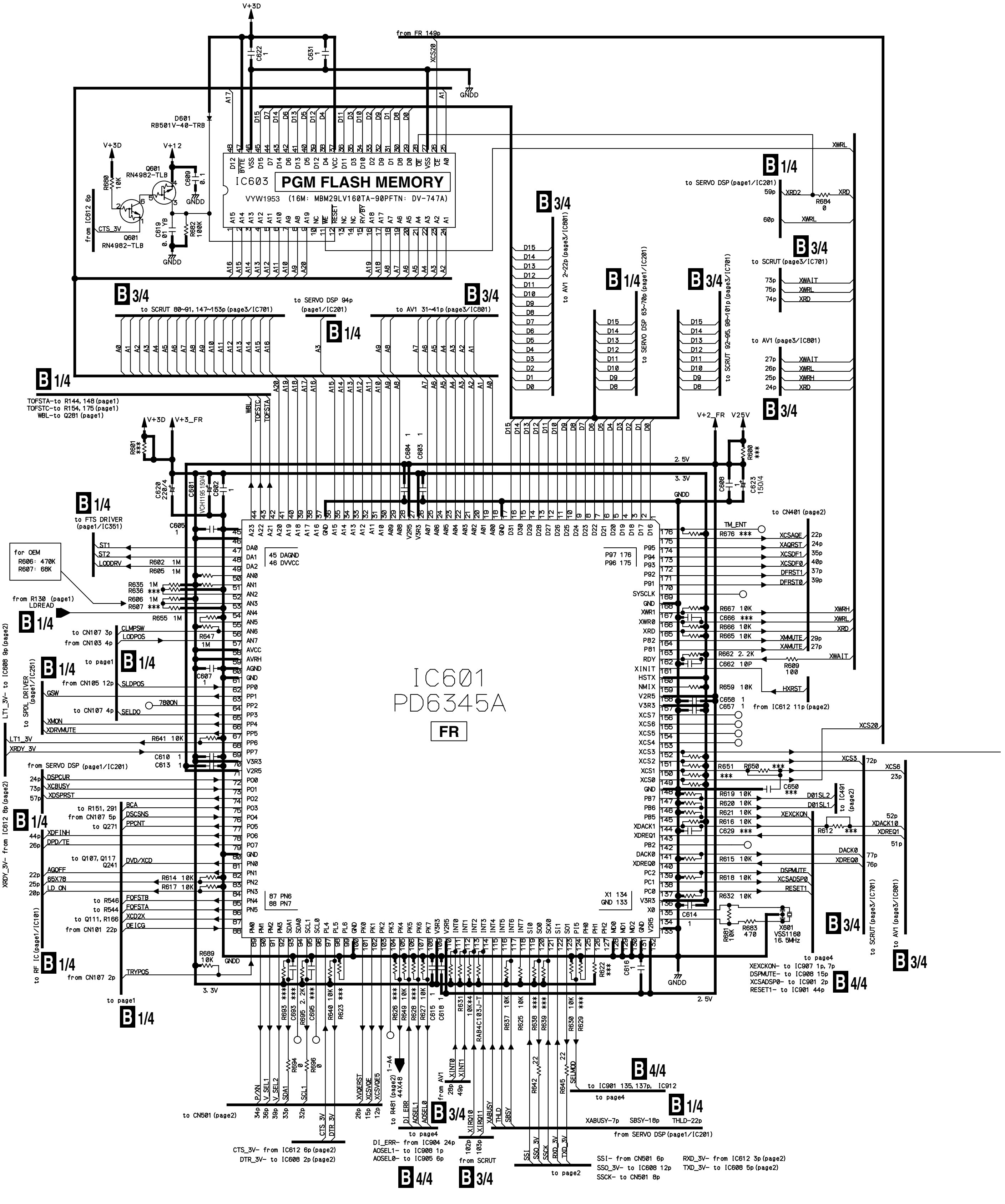
: The power supply is shown with the marked box.


B 3/4
VCOCLK
to SCRUT 181p (page3/IC701)
IC305 ***
IC303 TC7SZU04F-TLB
IC304 TC7SZU04F-TLB
IC306 TC7SZU04F-TLB
V+3D
V+3D_VCO
D303 KV1470-TLB
D302 KV1470-TLB
L304 1.5µ LCYA1R5J2520-T LCTA1R5J2520-T
IC302 BA4510F-TBB
APC
AFC
ASC
ATC
AIN
from/to SCRUT (page3/IC701)
APC-185p
AFC-187p
ASC-184p
ATC-186p
AIN-170p
V165
1-C2, 1-D3, 1-D5
V+5S
TP102
TP103
for Function Checker
(V)
Q210 2SA1576A(RS)-TLB
IC211 TK15404M-TRB
B 2/4
RFSACD
to CN602 24p (page2)
(RF) : RF SIGNAL ROUTE
(V) : RF (VIDEO) SIGNAL ROUTE
(A) : RF (AUDIO) SIGNAL ROUTE
(AD) : AUDIO DATA SIGNAL ROUTE
(F) : FOCUS SERVO LOOP LINE
(T) : TRACKING SERVO LOOP LINE
(S) : SLIDER SERVO LOOP LINE
DOUT
to AV1 46p (page3/IC801)
to SCRUT (page3/IC701)
to RF IC 33p (page1/IC101)
to FR (page2/IC601)
16MDSP
V+3DSP
V+5SDSP
HTR 24p
to RF IC (page1/IC101)
JITTER 58p
IC201
LC78652W
SERVO DSP
⑤
⑥
⑦
⑧⑨
⑩⑪
RREC
PH
TE
FE
DSPRF
TBAL
FDO
TDO
to FTS DRIVER (IC351/page1)
from FR 81p (page2/IC601)
DVD/XCD
Q241 DTC114EUA-TLB
SGC 32p
FBAL 31p
to SCRUT 8p (page3/IC701)
HFL
JV/XRR 29p
to RF IC (page1/IC101)
from/to FR (page2/IC601)
to RF IC 28p (page1/IC101)
DFOUT1
1-B2, 1-B3
Q171 RN4982-TLB
IC251
SPDL DRV IC
BA6664FM-TBB
3216サイズ
V+8M
GSW 63p
XDRVMUTE 67p
to SCRUT 162p (page3/IC701)
FGPL
XMON 66p
from/to FR (page2/IC601)
SLDPOS 62p
GNDM
IC261 BA4510F-TBB
SPERR
FPWM 159p
VPWM 160p
PPWM 161p
RPWM 158p
from SCRUT (page3/IC701)
1-C2, 1-D3, 1-A5
V165
to VCO (R322, 318)
to FTS DRIVER (R361, 369, 375)
DUTY50
from SCRUT 189p (page3/IC701)
resistor
2125 size RS1/10S***
1608 size RS1/16S***
capacitor
2125 size CKSQ**~
1608 size CCSR**~ CKSR**~
*** : parts not mounted

B 1/4

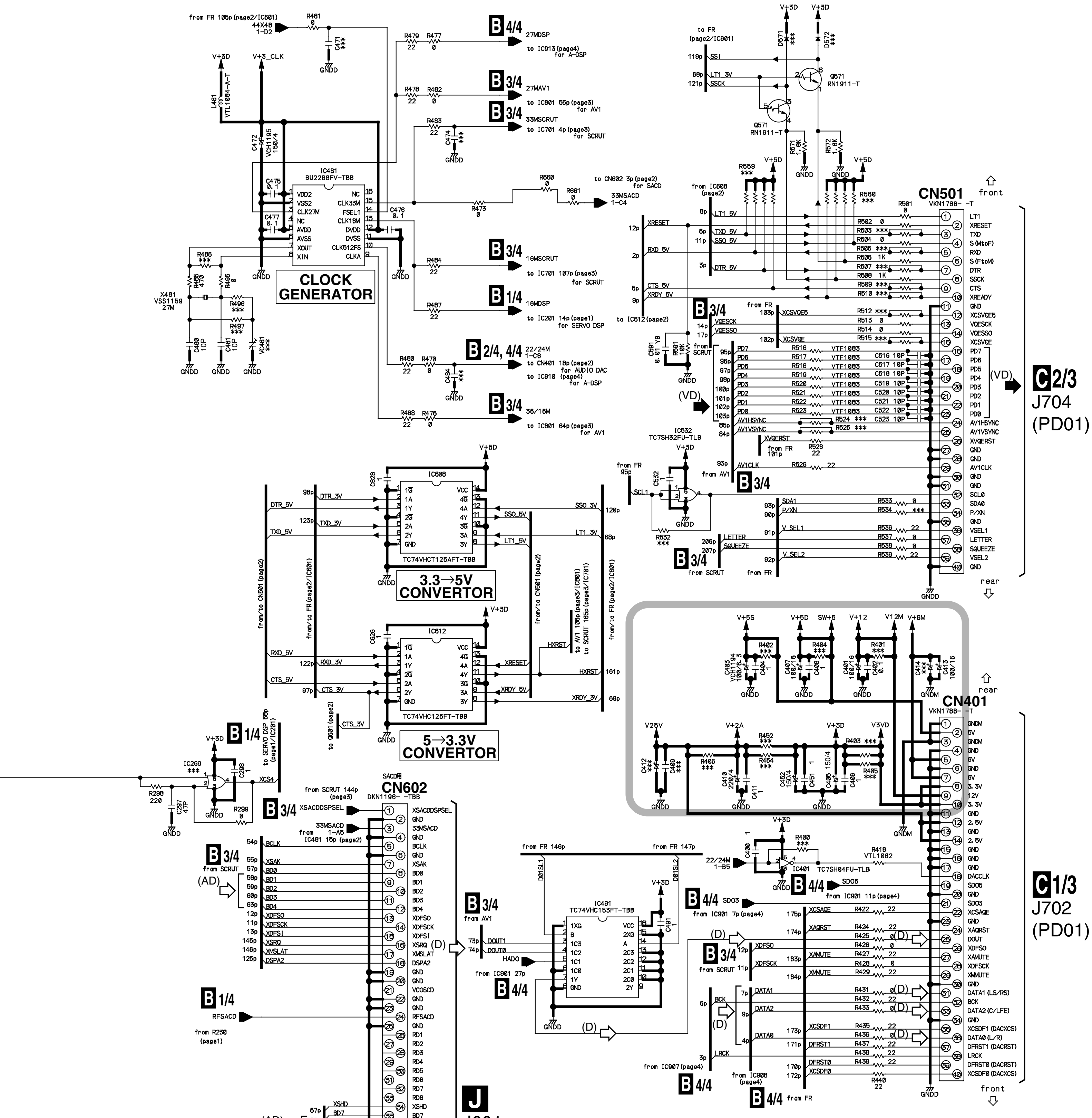
DVDM ASSY (2/4)

B 2/4 DVDM ASSY (VWS1513)


V+3D
from FR 149p
XCS20
C622 1
C631 1
GNDD
D601 RB501V-40-TRB
Q601 RN4982-TLB
V+12
R680 10K
C609 0.1
R682 100K
C619 0.01 YB
CTS_3V
from IC612 6p
IC603
PGM FLASH MEMORY
VYW1953 (16M: MBM29LV160TA-90PFTN: DV-747A)
B 1/4
to SERVO DSP (page1/IC201)
XRD2
R684 0
XRD
XWRL
B 3/4
to SCRUT (page3/IC701)
XWAIT
XWRL
XRD
to AV1 (page3/IC801)
XWAIT
XWRL
XWRH
XRD
to AV1 2~22p (page3/IC801)
to SERVO DSP 63~70p (page1/IC201)
to SCRUT 92~95, 98~101p (page3/IC701)
to SCRUT 80~91, 147~153p (page3/IC701)
to SERVO DSP 94p (page1/IC201)
to AV1 31~41p (page3/IC801)
TOFSTA-to R144, 148 (page1)
TOFSTC-to R154, 175 (page1)
WBL-to Q281 (page1)
V+3_FR
R601 ***
C620 220/4
C601
C602
C604 1
C603 1
V+2_FR
V25V
R600 ***
C608 1
C623 150/4
2.5V
3.3V
GNDD
to FTS DRIVER (page1/IC351)
ST1
ST2
LODDRV
for OEM
R606: 470K
R607: 68K
R602 1M
R605 1M
R635 1M
R636 ***
R606 1M
R607 ***
from R130 (page1)
LDREAD
R655 1M
to CN107 3p
from CN103 4p
CLMPSW
LODPOS
R647 1M
to page1
from CN105 12p
SLDPOS
GSW
7800N
to CN107 4p
SELDO
to SPDL DRIVER (page1/IC251)
XMON
XDRVMUTE
LT1_3V
XRDY_3V
R641 10K
C610 1
C613 1
from SERVO DSP (page1/IC201)
DSPCUR
XCBUSY
XDSPRST
to R151, 291
from CN107 5p
to Q271
BCA
DSCSNS
PPCNT
XDFINH
DPD/TE
to Q107, Q117 Q241
DVD/XCD
AGOFF
65X78
LD ON
R614 10K
R617 10K
to R546
to R544
to Q111, R166
from CN101 22p
FOFSTB
FOFSTA
XCD2X
OFICG
to RF IC (page1/IC101)
from CN107 2p
TRYPOS
R689 10K
IC601
PD6345A
FR
to CN401 (page2)
TM_ENT
R676 ***
XCSAQE
XAQRST
XCSDF1
XCSDF0
DFRST1
DFRST0
R667 10K
C666 ***
R666 10K
R665 10K
XMMUTE
XAMUTE
XWRH
XWRL
XRD
R662 2.2K
C662 10P
R609 100
XWAIT
R659 10K
HXRST
C658 1
C657 1
from IC612 11p (page2)
XCS20
R651
R650 ***
XCS3
XCS6
C650 ***
R619 10K
R620 10K
R621 10K
R616 10K
C629 ***
D01SL2
D01SL1
to IC491 (page2)
XEXCKON
R612 ***
XDACK10
XDREQ1
DACK0
XDREQ0
R615 10K
R618 10K
DSPMUTE
XCSADSP0
RESET1
R632 10K
C614 1
R681 10K
R683 470
X601 VSS1160 16.9MHz
to page4
XEXCKON- to IC907 1p, 7p
DSPMUTE- to IC908 15p
XCSADSP0- to IC901 2p
RESET1- to IC901 44p
B 4/4
to SCRUT (page3/IC701)
to AV1 (page3/IC801)
R622 ***
C616
GNDD
2.5V
3.3V
R693 ***
R695 2.2K
C695 ***
R640 10K
R623 ***
R694 0
R696 0
R626 ***
R649 10K
R628 ***
R627 10K
C615 1
C618 1
R631
10K*4
RAB4C103J-T
R637 10K
R625 10K
R638 ***
R639 ***
R630 10K
R629 ***
R642 22
R645 22
to IC901 135, 137p, IC912
to page4
P/XN
V_SEL1
V_SEL2
SDA1
SCL1
to CN501 (page2)
CTS_3V
DTR_3V
CTS_3V- from IC612 6p (page2)
DTR_3V- to IC608 2p (page2)
XVDERST
XCSVQE
XCSVQE5
to R481 (page2) 44X48
DI_ERR
AOSEL1
AOSEL0
DI_ERR- from IC904 24p
AOSEL1- to IC908 1p
AOSEL0- to IC905 6p
from AV1
XINT0
XINT1
XIRQ10
XIRQ11
from SCRUT
XABUSY
THLD
SBSY
XABUSY-7p SBSY-18p THLD-22p
from SERVO DSP (page1/IC201)
SSI
SSO_3V
SSCK
RXD_3V
TXD_3V
SELMOD
SSI- from CN501 6p
SSO_3V- to IC608 12p
SSCK- to CN501 8p
RXD_3V- from IC612 3p (page2)
TXD_3V- to IC608 5p (page2)
to page2
to page1
B 1/4
B 3/4
B 4/4

B 2/4

: The power supply is shown with the marked box.



CLOCK GENERATOR
IC481 BU2288FV-TBB
X481 VSS1159 27M
L481 VTL1084-A-T
C472 VCH1195 150/4
V+3D
V+3_CLK
from FR 105p (page2/IC601) 44X48 1-D2
B 4/4 27MDSP to IC913 (page4) for A-DSP
B 3/4 27MAV1 to IC801 55p (page3) for AV1
B 3/4 33MSCRUT to IC701 4p (page3) for SCRUT
to CN602 3p (page2) for SACD
33MSACD 1-C4
B 3/4 16MSCRUT to IC701 107p (page3) for SCRUT
B 1/4 16MDSP to IC201 14p (page1) for SERVO DSP
B 2/4, 4/4 22/24M 1-C6 to CN401 18p (page2) for AUDIO DAC to IC910 (page4) for A-DSP
B 3/4 36/16M to IC801 64p (page3) for AV1
IC608 TC74VHCT125AFT-TBB
3.3→5V CONVERTOR
IC612 TC74VHC125FT-TBB
5→3.3V CONVERTOR
from/to CN501 (page2)
from/to FR (page2/IC601)
to AV1 106p (page3/IC801) to SCRUT 165p (page3/IC701)
to IC601 (page2)
to FR (page2/IC601)
Q571 RN1911-T
D571 ***
D572 ***
from IC608 (page2)
to IC612 (page2)
CN501 VKN1788- -T
front
rear
LT1 XRESET TXD S(MtoF) RXD S(FtoM) DTR SSCK CTS XREADY GND XCSVQE5 VQESCK VQESSO XCSVQE PD7 PD6 PD5 PD4 PD3 PD2 PD1 PD0 AV1HSYNC AV1VSYNC XVQERST GND GND AV1CLK GND GND SCL0 SDA0 P/XN GND VSEL1 LETTER SQUEEZE VSEL2 GND
(VD)
C 2/3 J704 (PD01)
IC532 TC7SH32FU-TLB
B 3/4 from SCRUT
from FR
CN401 VKN1788- -T
V+5S V+5D SW+5 V+12 V12M V+6M
V25V V+2A V+3D V3VD
GNDM 5V GNDM GND 6V GND 6V 3.3V 12V 3.3V GND 2.5V GND 2.5V GND GND DACCLK SDO5 GND SDO3 XCSAGE GND XAQRST DOUT XDFSO XAMUTE XDFSCK XMMUTE GND DATA1 (LS/RS) BCK DATA2 (C/LFE) GND XCSDF1 (DACXCS) DATA0 (L/R) DFRST1 (DACRST) LRCK DFRST0 (DACRST) XCSDF0 (DACXCS)
C 1/3 J702 (PD01)
IC401 TC7SH04FU-TLB
IC491 TC74VHC153FT-TBB
from FR 146p
from FR 147p
B 3/4 from AV1
B 4/4 from IC901 27p
B 4/4 SDO5 from IC901 11p (page4)
B 4/4 SDO3 from IC901 7p (page4)
B 3/4 from SCRUT
from IC907 (page4)
B 4/4
from IC908 (page4)
B 4/4 from FR
IC299 ***
B 1/4 to SERVO DSP 58p (page1/IC201)
SACD用
CN602 DKN1196- -TBB
XSACDDSPSEL GND 33MSACD GND BCLK GND XSAK BD0 BD1 BD2 BD3 BD4 XDFSO XDFSCK XDFSI XSRQ XMSLAT DSPA2 GND GND VCOSCD GND GND RFSACD GND RD1 RD2 RD3 RD4 RD5 RD6 RD7 RD8 XSHD BD7 BD6 BD5 XMSREADY XMRST XSACDSL
B 3/4 from SCRUT 144p (page3)
33MSACD from IC481 15p (page2) 1-A5
B 3/4 from SCRUT
(AD)
(D)
B 1/4 RFSACD from R230 (page1)
B 3/4 from SCRUT
J J601 (PD01)

*** : parts not mounted

(VD) : VIDEO DATA SIGNAL ROUTE

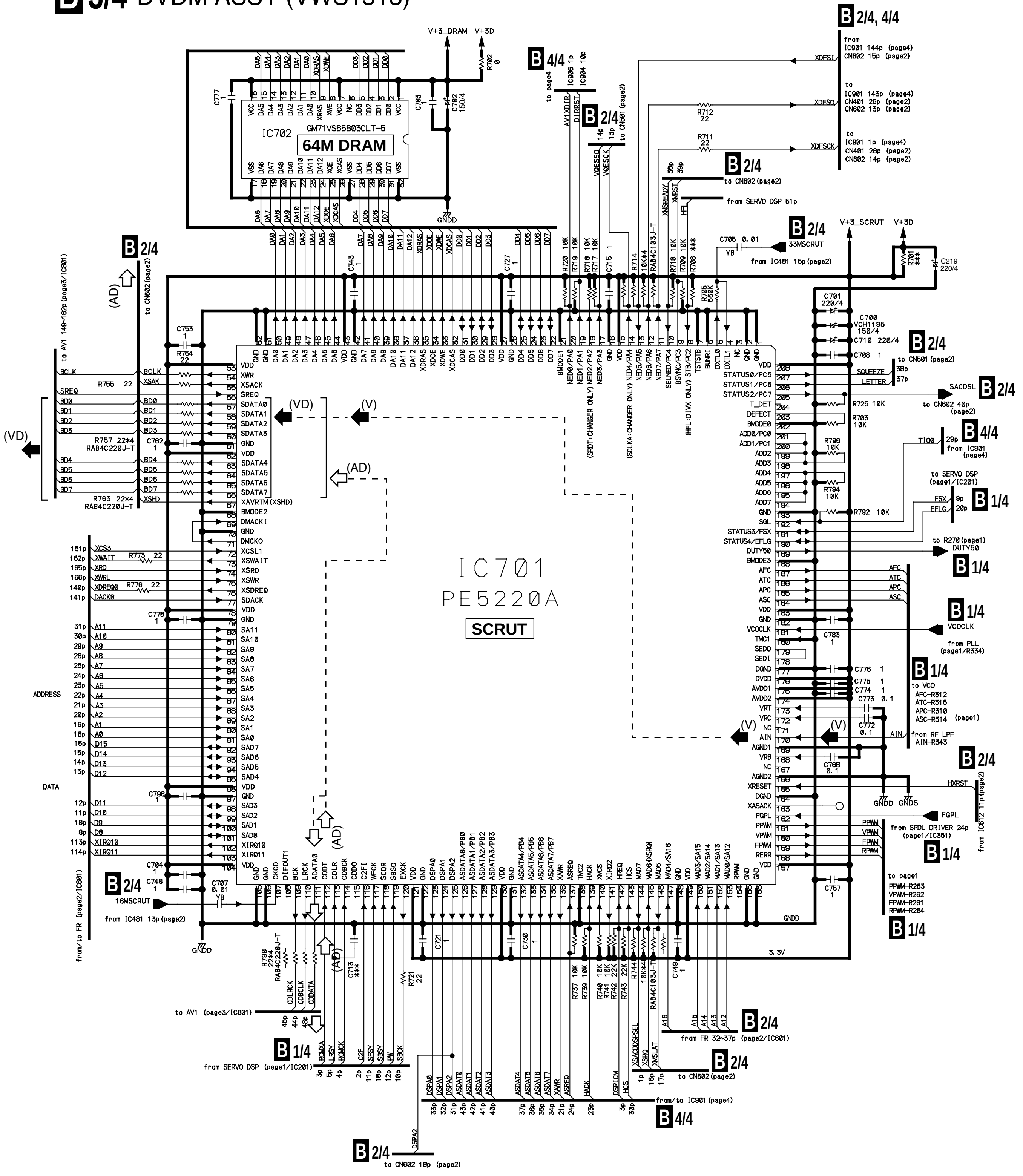
(AD) : AUDIO DATA SIGNAL ROUTE

(D) : AUDIO (DIGITAL) SIGNAL ROUTE

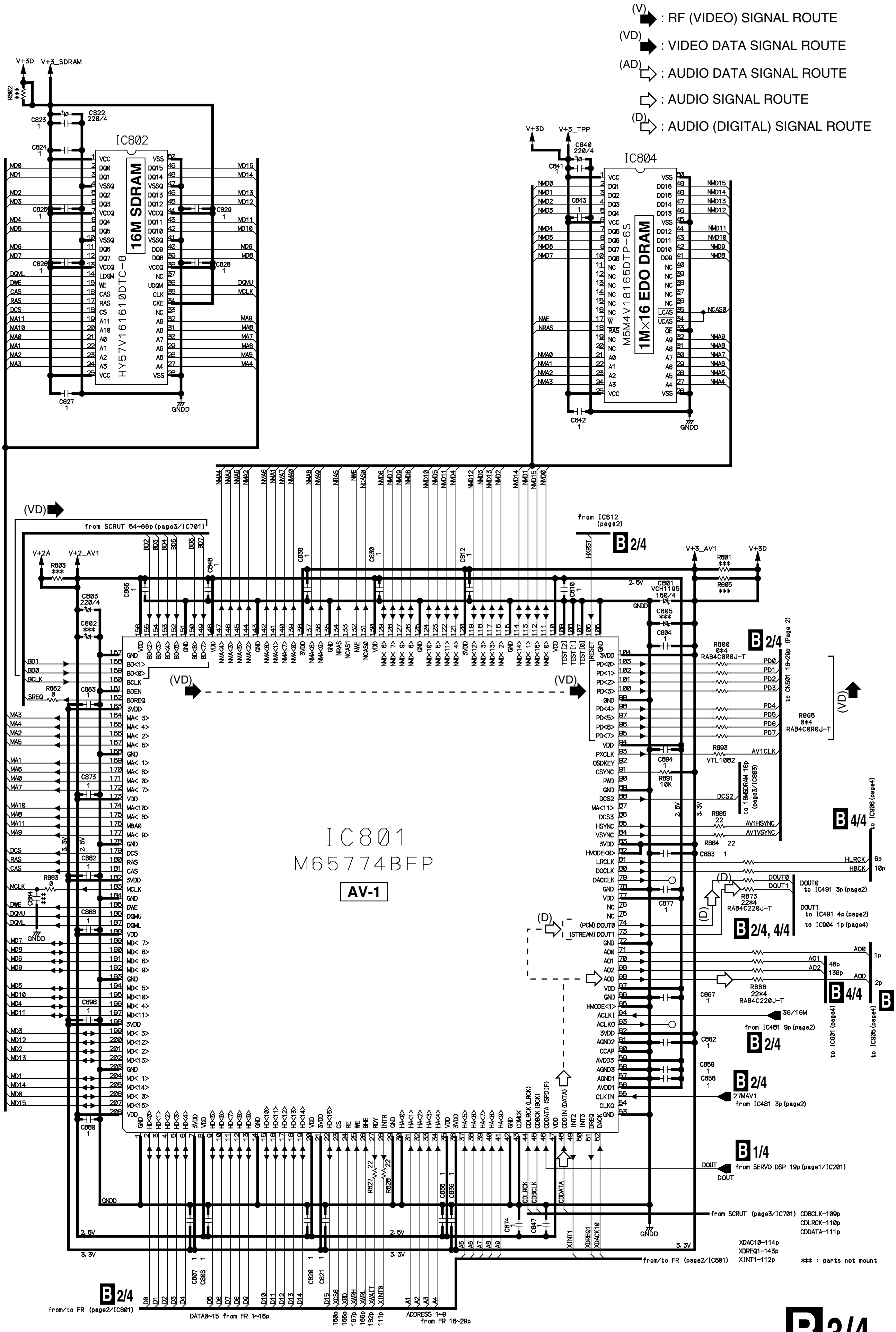
B 2/4

DVDM ASSY (3/4)

B 3/4 DVDM ASSY (VWS1513)


IC702
GM71VS65803CLT-5
64M DRAM
IC701
PE5220A
SCRUT
V+3_DRAM
V+3D
R702 0
C777 1
C703 1
C702 150/4
GNDD
B 4/4
to page4
IC906 1p
IC904 10p
AV1XDIR
DIRRST
B 2/4
14p
13p
to CN601 (page2)
VDESSO
VDESCK
B 2/4, 4/4
XDFSI
from IC901 144p (page4) CN602 15p (page2)
XDFSO
to IC901 143p (page4) CN401 26p (page2) CN602 13p (page2)
R712 22
R711 22
XDFSCK
to IC901 1p (page4) CN401 28p (page2) CN602 14p (page2)
B 2/4
38p
39p
to CN602 (page2)
XMSREADY
XMSRST
HFL
from SERVO DSP 51p
B 2/4
33MSCRUT
from IC481 15p (page2)
C705 0.01
YB
V+3_SCRUT
V+3D
R701 ***
C219 220/4
R720 10K
R719 10K
R718 10K
R717 10K
C715 1
R714
10K*4
RAB4C103J-T
R710 10K
R709 10K
R708 ***
R706 560K
C743 1
C727 1
(SRDT:CHANGER ONLY)
(SCLKA:CHANGER ONLY)
(HFL:DIVX ONLY)
C701 220/4
C700 VCH1195 150/4
C710 220/4
C708 1
B 2/4
to CN501 (page2)
SQUEEZE 38p
LETTER 37p
SACDSL
B 2/4
to CN602 40p (page2)
R725 10K
R703 10K
B 4/4
TIO0 29p
from IC901 (page4)
R790 10K
R794 10K
R792 10K
to SERVO DSP (page1/IC201)
FSX 9p
EFLG 20p
B 1/4
to R270 (page1)
DUTY50
B 1/4
AFC
ATC
APC
ASC
B 1/4
VCOCLK
from PLL (page1/R334)
C783 1
C776 1
C775 1
C774 1
C773 0.1
B 1/4
to VCO
AFC-R312
ATC-R316
APC-R310
ASC-R314 (page1)
C772 0.1
AIN
from RF LPF AIN-R343
C768 0.1
(V)
B 2/4
HXRST
from IC612 11p (page2)
GNDD GNDS
FGPL
from SPDL DRIVER 24p (page1/IC351)
PPWM
VPWM
FPWM
RPWM
B 1/4
to page1
PPWM-R263
VPWM-R262
FPWM-R261
RPWM-R264
B 1/4
C757 1
GNDD
3.3V
B 2/4
(AD)
to CN602 (page2)
to AV1 149-162p (page3/IC801)
C753 1
R754 22
BCLK
XSAK
SREQ
R755 22
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
(VD)
R757 22*4
RAB4C220J-T
C762 1
R763 22*4
RAB4C220J-T
XSHD
(VD)
(V)
(AD)
151p XCS3
162p XWAIT
165p XRD
166p XWRL
140p XDREQ0
141p DACK0
R773 22
R776 22
C778 1
ADDRESS
31p A11
30p A10
29p A9
28p A8
25p A7
24p A6
23p A5
22p A4
21p A3
20p A2
19p A1
18p A0
DATA
16p D15
15p D14
14p D13
13p D12
12p D11
11p D10
10p D9
9p D8
113p XIRQ10
114p XIRQ11
C796 1
C704 1
C740 1
B 2/4
16MSCRUT
from IC481 13p (page2)
C707 0.01
YB
GNDD
from/to FR (page2/IC801)
R790 22*4
RAB4C220J-T
C713 ***
R721 22
C721 1
C730 1
R737 10K
R739 10K
R740 10K
R741 10K
R742 22K
R743 22K
R744 10K*4
RAB4C103J-T
C749 1
COLRCK
COBCLK
CODATA
to AV1 (page3/IC801)
45p
44p
48p
B 1/4
from SERVO DSP (page1/IC201)
RDMKA
LRSY
RDMCK
C2E
SFSY
SBSY
BW
SBCK
3p 5p 4p 2p 11p 18p 12p 10p
DSPA0
DSPA1
DSPA2
ASDAT0
ASDAT1
ASDAT2
ASDAT3
ASDAT4
ASDAT5
ASDAT6
ASDAT7
XAWR
ASREQ
HACK
DSPICM
HCS
35p 32p 31p 43p 42p 41p 40p 37p 36p 35p 34p 21p 20p 23p 3p 38p
from/to IC901 (page4)
B 4/4
XSACDDSPSEL
XSRQ
XMSLAT
1p 16p 17p
to CN602 (page2)
B 2/4
A16
A15
A14
A13
A12
from FR 32-37p (page2/IC801)
B 2/4
B 2/4
DSPA2
to CN602 18p (page2)

B 3/4



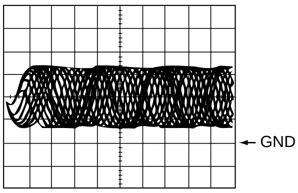
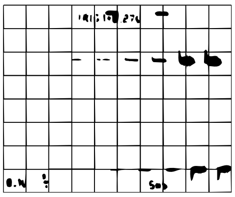
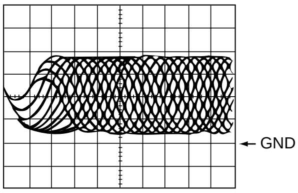
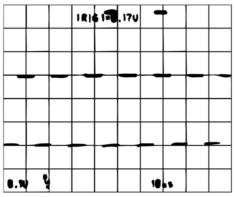
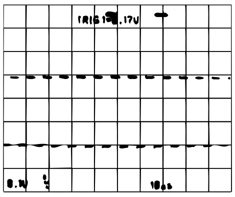
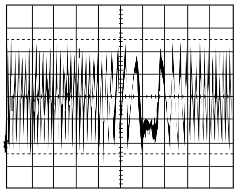
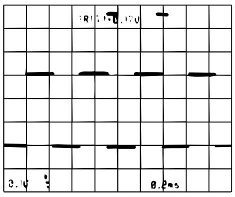
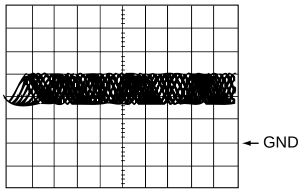
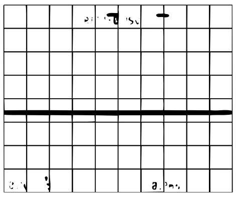
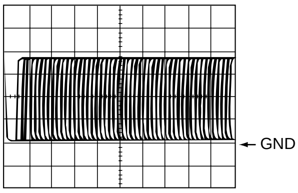
(V) : RF (VIDEO) SIGNAL ROUTE
(VD) : VIDEO DATA SIGNAL ROUTE
(AD) : AUDIO DATA SIGNAL ROUTE
: AUDIO SIGNAL ROUTE
(D) : AUDIO (DIGITAL) SIGNAL ROUTE
IC802
16M SDRAM
HY57V161610DTC-8
IC804
1M×16 EDO DRAM
M5M4V18165DTP-6S
IC801
M65774BFP
AV-1
V+3D
V+3_SDRAM
V+3_TPP
V+2A
V+2_AV1
V+3_AV1
GNDD
2.5V
3.3V
from SCRUT 54~66p (page3/IC701)
from IC612 (page2)
to CN501 16~29p (Page 2)
to 16MSDRAM 18p (page3/IC803)
to IC806 (page4)
DOUT0 to IC491 3p (page2)
DOUT1 to IC491 4p (page2)
to IC904 1p (page4)
to IC801 (page4)
to IC805 (page4)
36/16M from IC481 9p (page2)
27MAV1 from IC481 3p (page2)
DOUT from SERVO DSP 19p (page1/IC201)
from SCRUT (page3/IC701) CDBCLK-109p CDLRCK-110p CDDATA-111p
from/to FR (page2/IC601) XDAC10-114p XDREQ1-143p XINT1-112p
*** : parts not mount
from/to FR (page2/IC601)
DATA0~15 from FR 1~16p
ADDRESS 1~9 from FR 18~29p
B 2/4
B 2/4, 4/4
B 4/4
B 1/4

WAVEFORMS

Note : The encircled numbers denote measuring point in the schematic diagram.

B DVDM ASSY

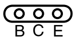
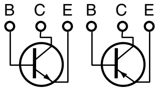
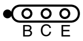
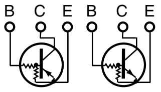
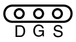
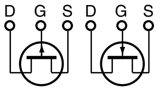
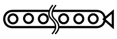
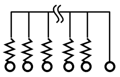
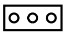
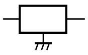
Measurement condition : No. 1 to 4 and 6 to 11 : MJK1, Title 1-chp 1
No. 5 : CD, ABEX-784 Track 1

① **Foot of R104 (RF)** V: 100mV/div. H: 0.2µsec/div.  	⑦ **IC251 - pin 24 (FG)** V: 1V/div. H: 5msec/div. 
② **Q106-emitter (RFO)** V: 500mV/div. H: 0.1µsec/div.  	⑧ **Foot of R261 (FPWM)** V: 1V/div. H: 5msec/div. 
③	⑨ **Foot of R262 (VPWM)** V: 1V/div. H: 5msec/div. 
④ **IC101-pin 35 (Tracking Error)** **(AI-Inner Tracking Off)** V: 500mV/div. H: 2msec/div. 	⑩ **Foot of R263 (PPWM)** V: 1V/div. H: 5msec/div. 
⑤ **IC201 - pin 39 (EFM before slice)** V: 1V/div. H: 1µsec/div.  	⑪ **Foot of R264 (RPWM)** V: 1V/div. H: 5msec/div. 
⑥ **IC201 - pin 1 (EFM)** V: 1V/div. H: 0.2µsec/div.  	

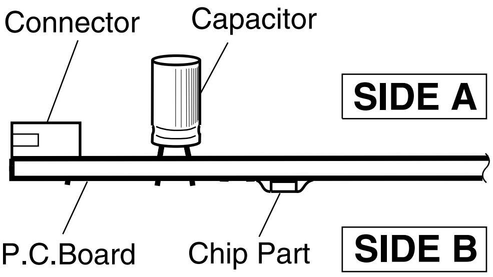
3.2 PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

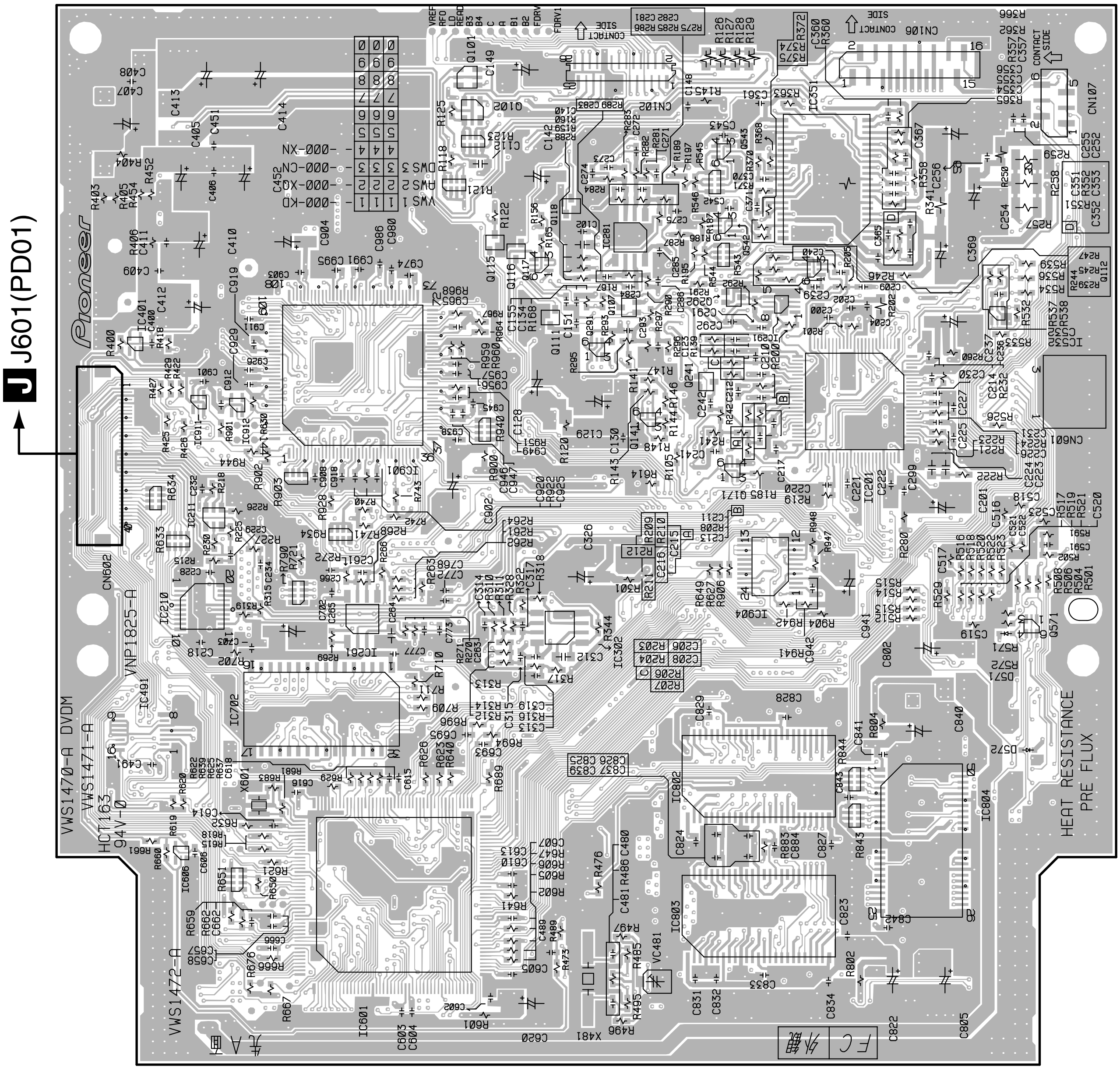
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.


Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

DVDM ASSY

B DVDM ASSY

SIDE A


J
J601(PD01)
CN602
VNP1825-A
VWS1470-A DVDM
VWS1471-A
VWS1472-A
HEAT RESISTANCE
PRE FLUX
CN107
CN106
CN102
CN601
IC702
IC601
IC802
IC803
IC804
IC904
IC261
IC210
IC491
IC606

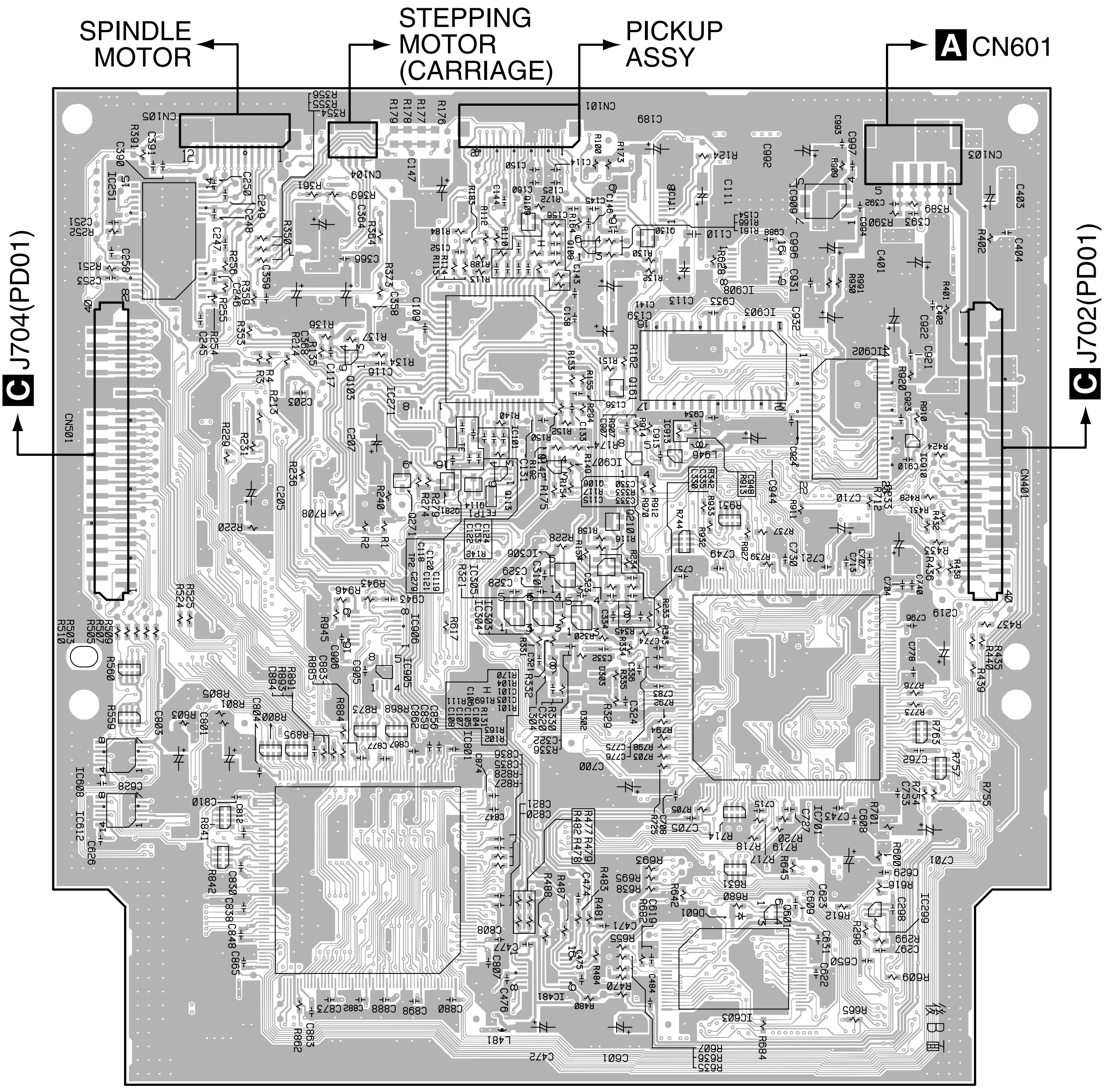
(VNP1825-A)

IC401 IC911 IC912 IC901 Q101 Q118 IC281 Q543 IC351 IC532
IC211 IC261 Q102 Q116 Q107 Q542 Q112 Q571
IC210 IC702 Q115 Q117 Q291 Q292 IC291 IC201
IC491 IC601 Q111 Q141 Q241 IC904 IC804
IC606 IC302 IC802
IC803

B

SIDE B

B DVDM ASSY


SPINDLE MOTOR
STEPPING MOTOR (CARRIAGE)
PICKUP ASSY
A CN601
C J704(PD01)
C J702(PD01)
CN105
CN104
CN101
CN103
CN501
CN401

(VNP1825-A)

IC251 Q103 IC271 Q109 Q108 Q130 IC903 IC909 IC910

IC608 Q271 Q281 IC101 Q142 Q161 IC913 IC701 IC902

IC612 IC905 Q113 IC907 Q601 IC299

IC801 IC306 Q210 IC603

Q106

IC304 IC303 IC305

3.3 GENERAL INFORMATION

When you repair the DVDM PCB, please be sure to write down the ID number.
You may need to input the ID number depending on how the PCB is repaired.

ID NUMBER AND ID DATA SETTING

■ Entering the ID Number and ID Data for Players with DVD-Audio Compatibility

It is necessary with a player with DVD-audio compatibility to set an individual number (ID number) and ID data. If the number and data are not set correctly with the following procedure, operations in the future may not be guaranteed.

Important: Write down the specified ID number by checking it according to "How to confirm the ID number" shown below.

■ The Input is Necessary When:

- Downloading FLASH-ROM is finished. (The latest version must be downloaded when a repair is made.)
- "No ID Number" is displayed on the screen (TV moniter) or FL display immediately after the power is turned on or in Stop mode.
- If "No ID DATA" is displayed, the ID data must be entered.

Note:
Be sure to enter the ID number in Stop mode.
Use the remote controller RC8300DV(DV8300) for operations. Only opening/closing of the tray are performed from the player.

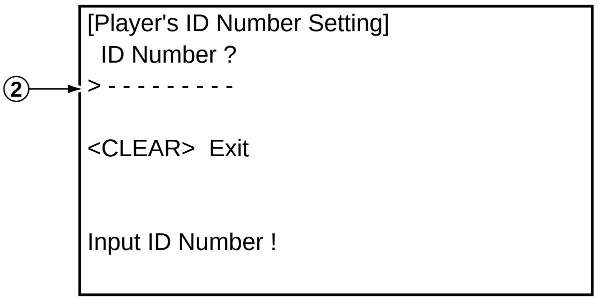
■ How to Input the ID Number and ID Data (FLASH-ROM)

To enter the input mode, do the following procedure when no ID number is set like just after downloading.
If an ID number has been written to the set, the ID number is memorized in the EEPROM on the front PCB board(PF01) and no number but the ID number can be input. To write another ID number to the set that an ID number is has already been written, delete the ID number in both EEPROM and Flash ROM, and input a new ID number.

① To enter the input mode, operate *A1 in a status with no ID number set, such as after FLASH-ROM downloading.

Operate *A1(ID number confirmation mode):
1. PAUSE and STOP are pushed simultaneously.
2. 1.2. and 1 are input
3. PLAY is pushed

② As number input is enabled when the unit enters the input mode, input the 9-digit ID number.
(The entered number is also displayed on the FL display.)

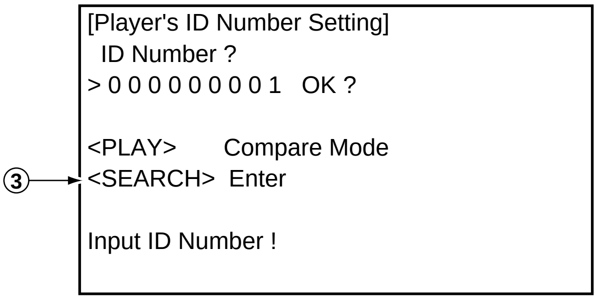


[Player's ID Number Setting]
ID Number ?
> - - - - - - - - -

<CLEAR> Exit

Input ID Number !

③ After inputting the number, press SEARCH to register the ID number.

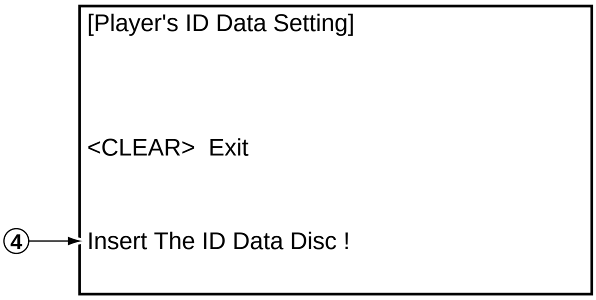


[Player's ID Number Setting]
ID Number ?
> 0 0 0 0 0 0 0 0 1 OK ?

<PLAY> Compare Mode
<SEARCH> Enter

Input ID Number !

④ When the ID number has been registered, the unit enters the ID data input mode. (The FL display indicates "NO ID DATA.")
In this condition, place the ID data disc on the tray and close the tray using the OPEN/CLOSE key on the player.

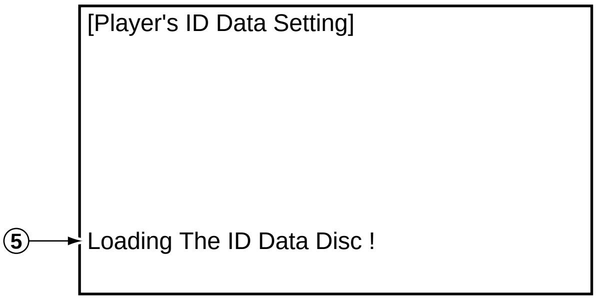


[Player's ID Data Setting]

<CLEAR> Exit

Insert The ID Data Disc !

⑤ While the data are being read, the message shown in the figure at left is displayed on the screen.
(The FL display indicates "RD ID DATA.")



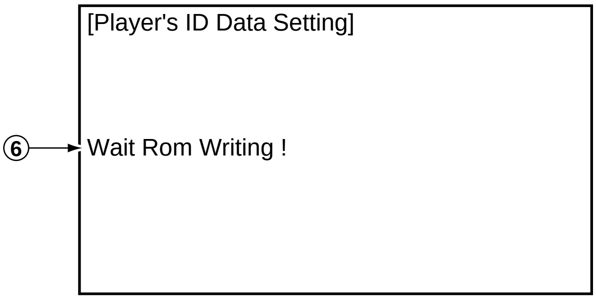
[Player's ID Data Setting]

Loading The ID Data Disc !

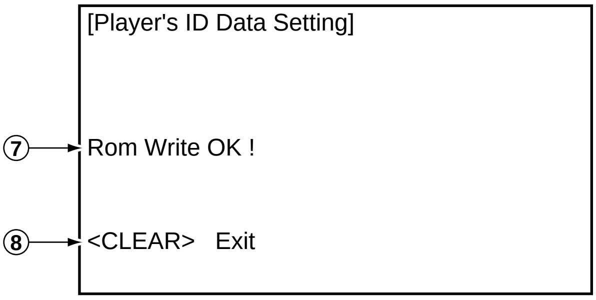
⑥ When the ID data have been read, the data are written to the FLASH-ROM.
(The FL display indicates "WR ID DATA.")

⑦ When the ID data have been written to the FLASH-ROM, the message "Rom Write OK" is displayed on the screen.
(The FL display indicates "ID DATA OK.")

⑧ After confirming this message, press CLEAR to exit the input mode.



```
[Player's ID Data Setting]

Wait Rom Writing !
```



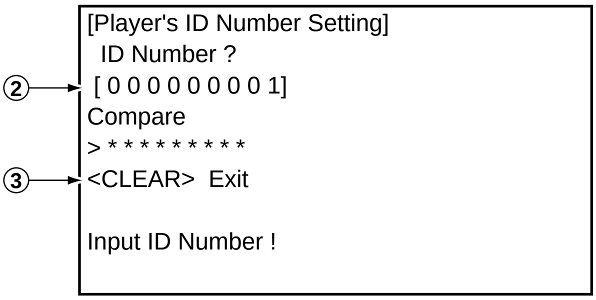
```
[Player's ID Data Setting]

Rom Write OK !

<CLEAR>   Exit
```

How to Confirm the ID Number (FLASH-ROM)

① Operate *A1 with an ID number set, and the unit enters the ID number confirmation mode.

② The set ID number is displayed on the screen (and on the FL display), permitting you to confirm it.

③ To exit this mode, press CLEAR .



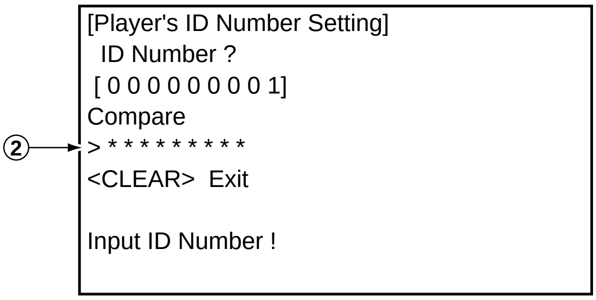
```
[Player's ID Number Setting]
  ID Number ?
 [ 0 0 0 0 0 0 0 0 1]
Compare
> * * * * * * * * *
<CLEAR>  Exit

Input ID Number !
```

How to Clear the ID Number (FLASH-ROM)

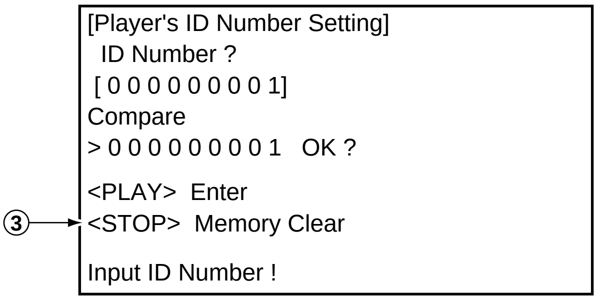
① Operate *A1 with an ID number set, and the unit enters the ID number confirmation mode.

② Input the same number as the ID number you have set.

③ After inputting the number, press STOP .
Only when the entered number matches the set ID number, the ID number is cleared and the unit exits this mode.
If the numbers do not match, you must return to step 2.
(STOP is not accepted until 9 digits are entered.)



```
[Player's ID Number Setting]
  ID Number ?
 [ 0 0 0 0 0 0 0 0 1]
Compare
> * * * * * * * * *
<CLEAR>  Exit

Input ID Number !
```



```
[Player's ID Number Setting]
  ID Number ?
 [ 0 0 0 0 0 0 0 0 1]
Compare
> 0 0 0 0 0 0 0 0 1   OK ?

<PLAY>  Enter
<STOP>  Memory Clear

Input ID Number !
```

How to confirm the ID Number. (EEP ROM)

1. Press PLAY + PAUSE of player, and the unit enter the ID number confirmation mode.
2. The set ID number is on the FL display. (9 digit numbers)
3. If the ID number of 9 digit is not inputted, it is displayed as "_________".

How to clear the ID number. (EEP ROM)

1. Press PLAY + PAUSE of player, and the unit enter the ID number confirmation mode.
2. The set ID number is on the FL display. (9 digit numbers)
3. The following operation is carried out while the ID number is displayed.
   - a Press PAUSE + STOP of remote control.
   - b Input 1, 2 and 1 by remote control.
   - c Press CLEAR key of remote control.
4. Since it is displayed on FL display as "ERASE SURE", if CLEAR is pushed once again, ID number memorized by EEP ROM will be eliminated.

EEP ROM の ID ナンバー確認方法

DVD プレーヤー本体の **PLAY**, **PAUSE** キーを同時に押す。
FL 管上に９桁の ID ナンバーが表示される。
EEP ROM に何も記憶されてない場合は、アンダーバー " ____________ " が表示されます。

EEP ROM の ID ナンバー消去方法

１．DVD プレーヤー本体の **PLAY**, **PAUSE** キーを同時に押す。FL 管上に９桁の ID ナンバーが表示される。
２．９桁のIDナンバーが表示されている間にリモコンで"**PAUSE**、**STOP** 同時押し、**1, 2, 1** 入力、そして **CLEAR** を押す"とFL管上に”**ERASE SURE**" と表示されるので、もう一度 **CLEAR** を押すと EEP ROM に記憶された ID ナンバーが消去されます。

注意：
この基板（DVDM）を修理するときは必ず ID ナンバーを書き留めておいて下さい。
基板（DVDM）の修理方法によって ID ナンバーの入力が必要になります。

IDナンバー及びIDデータ設定

■ DVDオーディオ対応プレーヤーのIDナンバー及びIDデータ入力について

DVDオーディオ対応プレーヤーではDVDオーディオディスク再生のために、各プレーヤ毎に個別の番号(IDナンバー)とIDデータを設定する必要があります。この番号とデータを、以下の手順で正しく設定しないと、将来にわたる動作保証ができなくなります。

重要: FALSH ROMのダウンロード前に、右頁の ” IDナンバーの確認方法” に従い設定されているIDナンバーを書き留めておいてください。

■ 入力が必要な場合

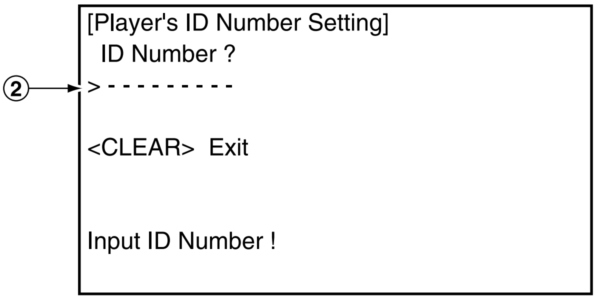
- FLASH ROMのダウンロード後。
- 電源投入直後または停止中に、画面上またはFL管に” No ID Number” と表示される場合。
- ” No ID DATA” と表示される時は、IDデータの入力が必要です。

注）
IDナンバー入力は停止中に行ってください。
操作は全てリモコン（RC8300DV）で行います。但し、トレイの開閉は本体キーで行います。

■ IDナンバー及びIDデータの入力方法

① 入力モードに入るには、ダウンロード後などのIDナンバーが何も設定されていない状態で 手順*A1を行う。
手順＊A1（IDナンバー確認モードに入る）
1. PAUSE and STOP 同時に押す
2. 121と数字を入力
3. PLAYを押す

② 入力モードに入ると数字が入力できる状態になるので、9桁のIDナンバーを入力します。（FL管に表示されます。）

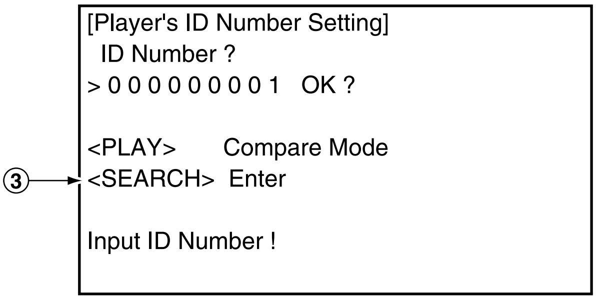


[Player's ID Number Setting]
ID Number ?
> - - - - - - - - -

<CLEAR> Exit

Input ID Number !

③ 数字入力後 SEARCH を入力すると、IDナンバーが設定できます。

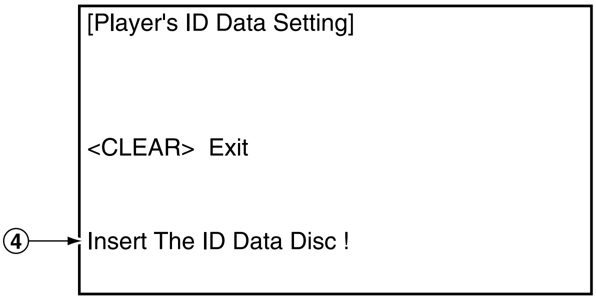


[Player's ID Number Setting]
ID Number ?
> 0 0 0 0 0 0 0 0 1   OK ?

<PLAY>   Compare Mode
<SEARCH> Enter

Input ID Number !

④ IDナンバーが設定されると、IDデータ入力状態になります。
（ FL管には” IN ID DATA” と表示されます。）
この状態でIDデータディスクをDISCトレイに載せ本体クローズキーでクローズするとデータを読み込みます。

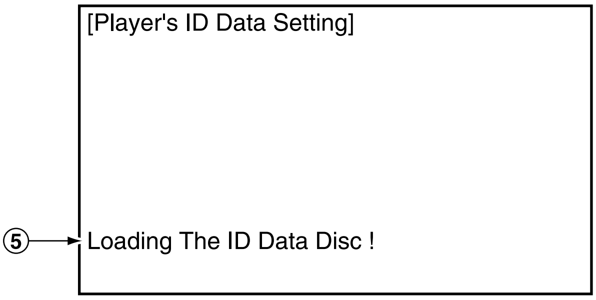


[Player's ID Data Setting]

<CLEAR> Exit

Insert The ID Data Disc !

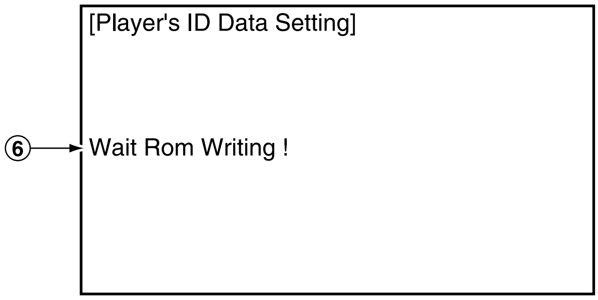
⑤ データ読み込み中は画面上に下記のような表示がされます。
（ FL管には” RD ID DATA” と表示されます。）



[Player's ID Data Setting]

Loading The ID Data Disc !

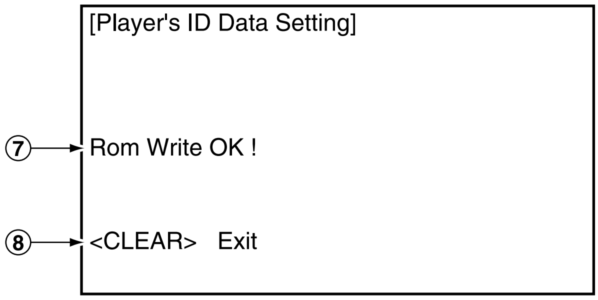
⑥ IDデータを読み込むとデータをFLASH ROMに書き込みます。
（FL管には”WR ID DATA”と表示されます。）



```
[Player's ID Data Setting]

Wait Rom Writing !
```

⑦ FLASH ROMへの書き込みが終了すると画面上に
”Rom Write OK!”と表示されます。
(FL管には”ID DATA OK”と表示されます。）

⑧ この表示を確認したらCLEARを入力し、設定モードを終了します。



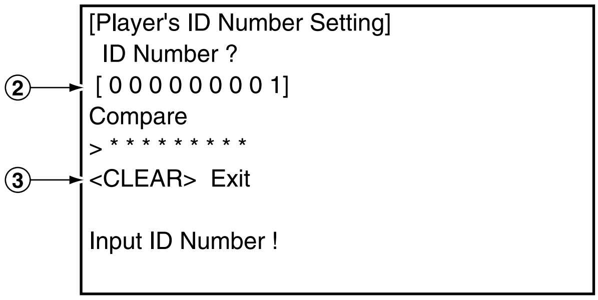
```
[Player's ID Data Setting]

Rom Write OK !

<CLEAR>   Exit
```

■ IDナンバーの確認方法

① IDナンバーが設定されている状態で 手順*A1を行うと
IDナンバー確認モードに入ります。

② 設定されているIDナンバーが表示されるので、ここで確認することができます。（FL管にも表示されます。）

③ CLEARを入力するとこのモードから抜けることができます。

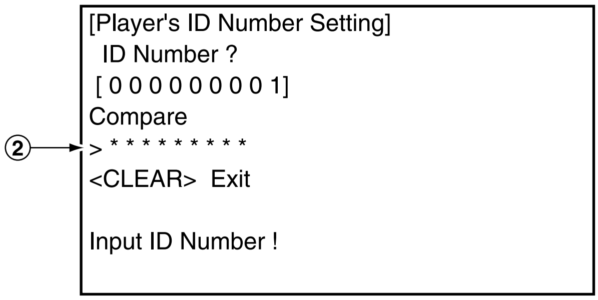


```
[Player's ID Number Setting]
  ID Number ?
 [ 0 0 0 0 0 0 0 0 1]
Compare
> * * * * * * * * *
<CLEAR>  Exit

Input ID Number !
```

■ IDナンバー消去方法

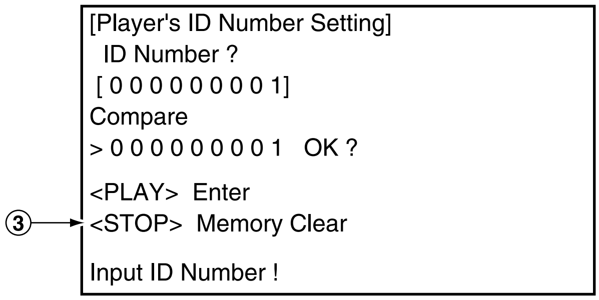
① IDナンバーが設定されている状態で手順*A1を行うと
IDナンバー確認モードに入ります。

② 設定されているIDナンバーと同じ数字を入力します。



```
[Player's ID Number Setting]
  ID Number ?
 [ 0 0 0 0 0 0 0 0 1]
Compare
> * * * * * * * * *
<CLEAR>  Exit

Input ID Number !
```

③ 数字入力後 、STOPを入力してください。
入力した数字と設定されているIDナンバーが一致した場合だけIDナンバーを消去し、このモードを抜けます。
数字が一致しない場合は、②へ戻ります。
（9桁入力するまではSTOPを受け付けません。）



```
[Player's ID Number Setting]
  ID Number ?
 [ 0 0 0 0 0 0 0 0 1]
Compare
> 0 0 0 0 0 0 0 0 1   OK ?

<PLAY>  Enter
<STOP>  Memory Clear

Input ID Number !
```

EEP ROM の ID ナンバー確認方法 および EEP ROM の ID ナンバーの消去方法は 3-20 ページ参照

Disassembly of the Traverse Mechanism Assy and the Pickup Assy

① Remove the Bonnet and Tray Panel.

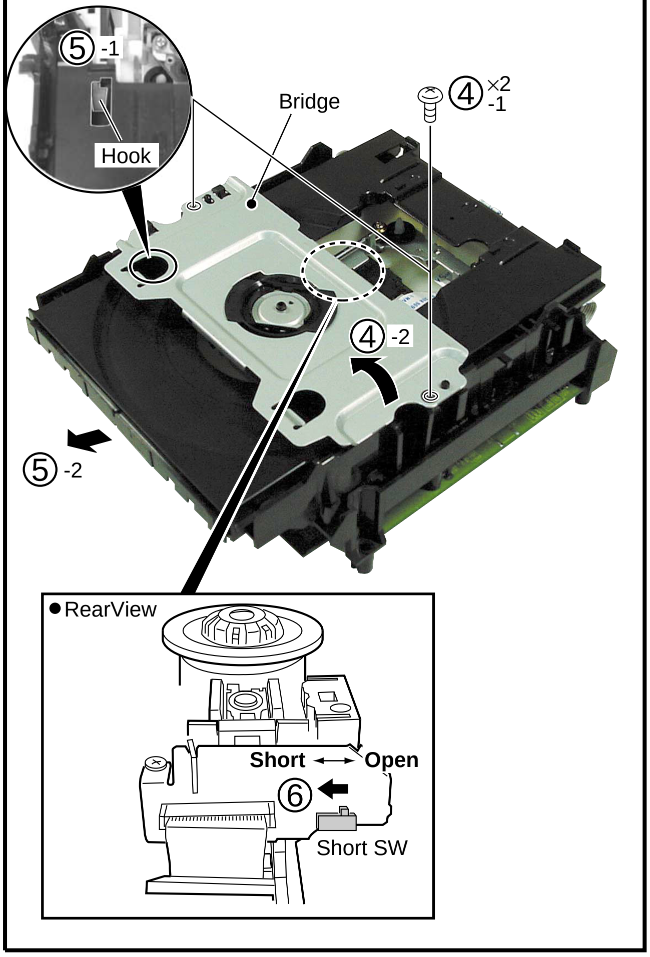
② Remove the Front Panel.

③ Remove the Loading Mechanism Assy (Screws ×4).

④ Remove the Bridge (Screw ×2).

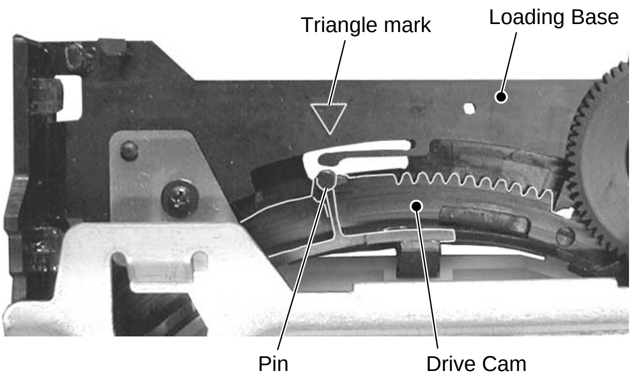
⑤ Pull out the Tray and remove it while unhooking a Hook.

⑥ Turn the Short SW to Short side.


⑤-1
Hook
Bridge
④ ×2 -1
④-2
⑤-2
●RearView
Short ←→ Open
⑥
Short SW

☞ Caution in the tray insertion

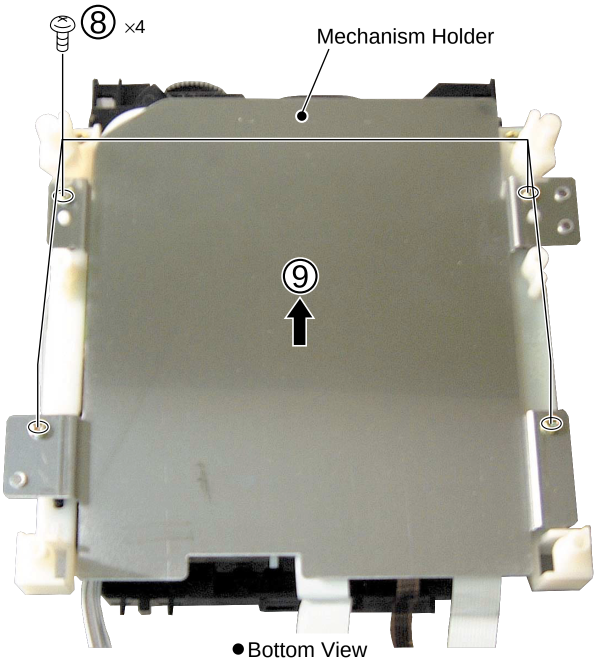
In the Tray insertion, insert it after matching a triangle mark of the Loading Base and a position of pin of the Drive Cam.


Triangle mark
Loading Base
Pin
Drive Cam.

⑦ Remove the DVDM Assy (Screws ×2).

⑧ Remove four screws.

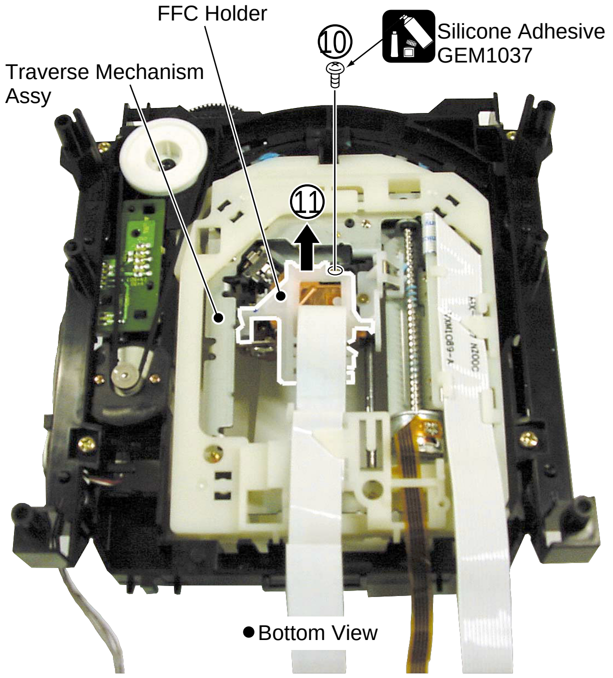
⑨ Remove the Mechanism Holder.


⑧ ×4
Mechanism Holder
⑨
●Bottom View

⑩ Remove a screw.

Cautions:
Screw is locked with Silicone adhesive.
Please lock it with Silicone adhesive when installs it.

⑪ Remove the FFC Holder with the state which Flexible Cable was atatched.


FFC Holder
⑩
Silicone Adhesive
GEM1037
Traverse Mechanism Assy
⑪
●Bottom View

Traverse Mechanism Assy

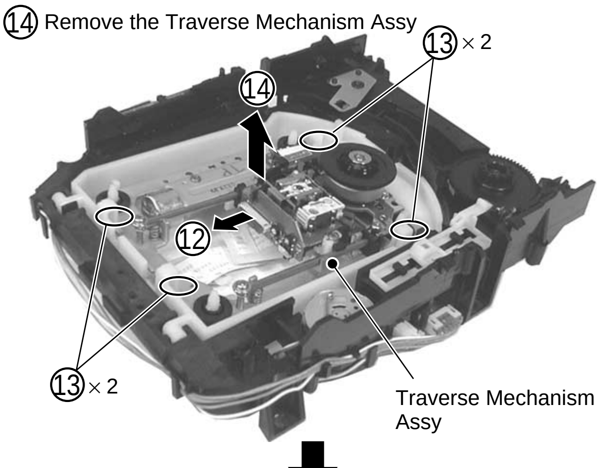
Pickup Assy

● When Removing The Traverse Mechanism Assy

⑫ Remove the Pickup Flexible Cable

⑬ Unhook (×4)

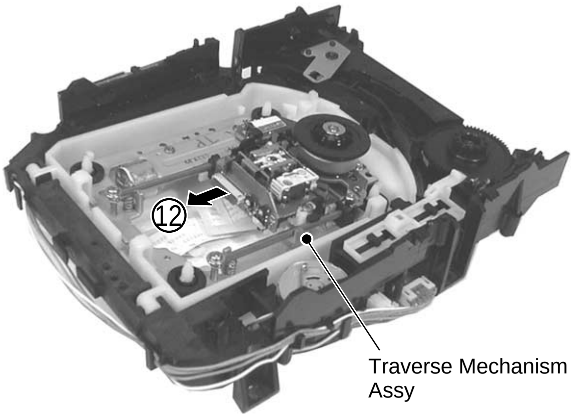
⑭ Remove the Traverse Mechanism Assy


⑬ × 2
⑭
⑫
⑬ × 2
Traverse Mechanism Assy

Exchange

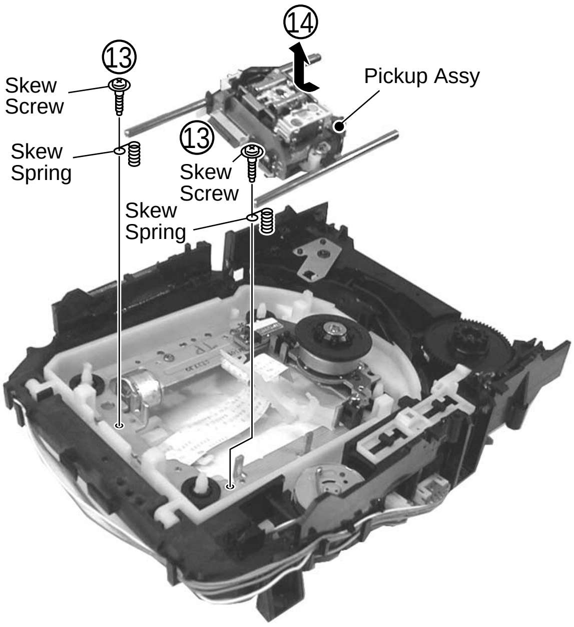
● When Removing The Pickup Assy

⑫ Remove the Pickup Flexible Cable.


⑫
Traverse Mechanism Assy

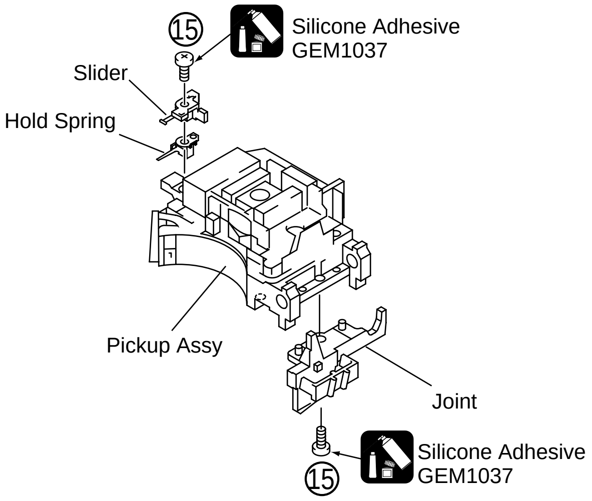
⑬ Remove two Skew Screws and two Skew Springs.

⑭ Remove the Pickup Assy.


⑭
⑬
Skew Screw
Pickup Assy
Skew Spring
⑬
Skew Screw
Skew Spring

⑮ Remove two screws.

Cautions:
Screw is locked with Silicone adhesive.
Please lock it with Silicone adhesive when installs it.

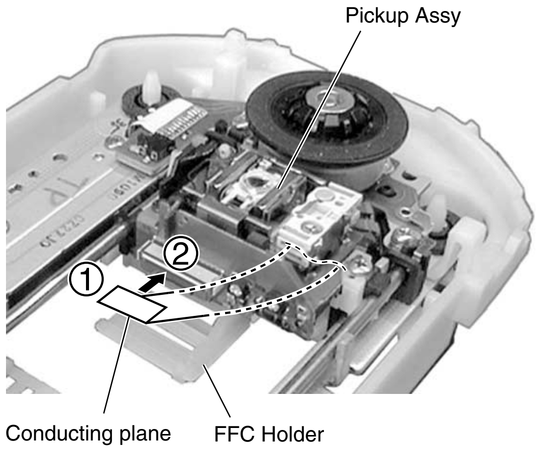

⑮
Silicone Adhesive GEM1037
Slider
Hold Spring
Pickup Assy
Joint
Silicone Adhesive GEM1037
⑮

Exchange

☞Styling the Pickup Flexible Cable

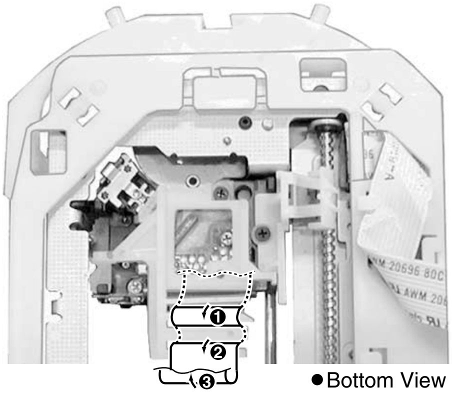
① Fold a edge of lining part of the Pickup Flexible Cable.

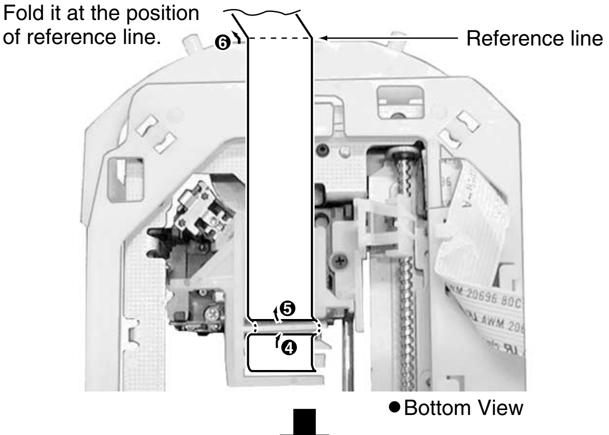
② Insert the Pickup Flexible Cable in connector, and lock it surely.

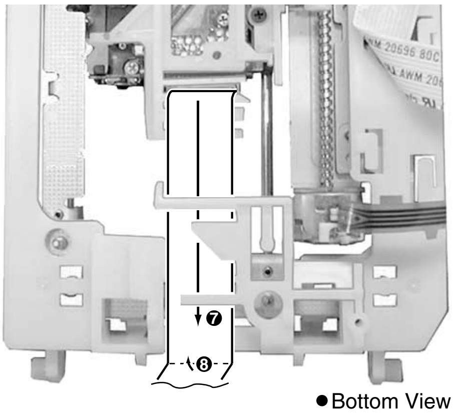

Pickup Assy
①
②
Conducting plane
FFC Holder

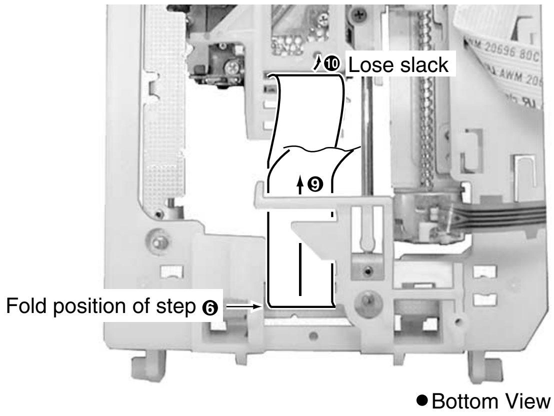
Caution:
Move the Pickup to the innermost of the disc.

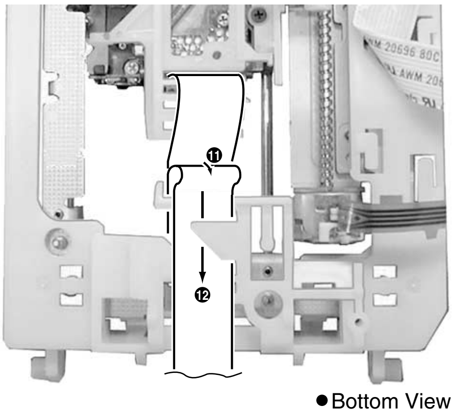
③ Perform the styling as shown in figure below.


❶
❷
❸
● Bottom View


Fold it at the position of reference line.
❻
Reference line
❺
❹
● Bottom View


❼
❽
● Bottom View


❿ Lose slack
❾
Fold position of step ❻
● Bottom View

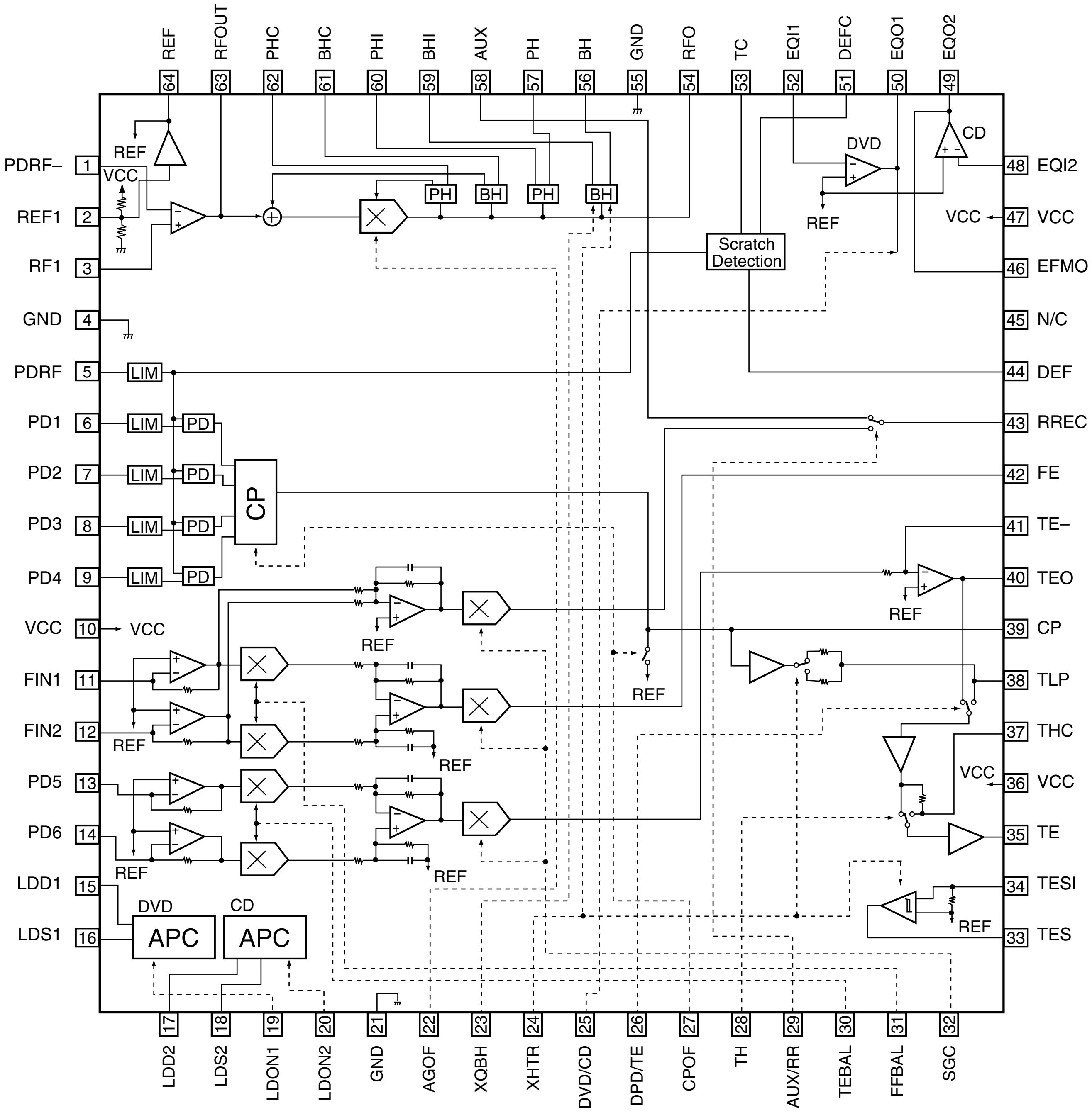

⓫
⓬
● Bottom View

IC DATA

■ LA9701M (DVDM ASSY : IC101)

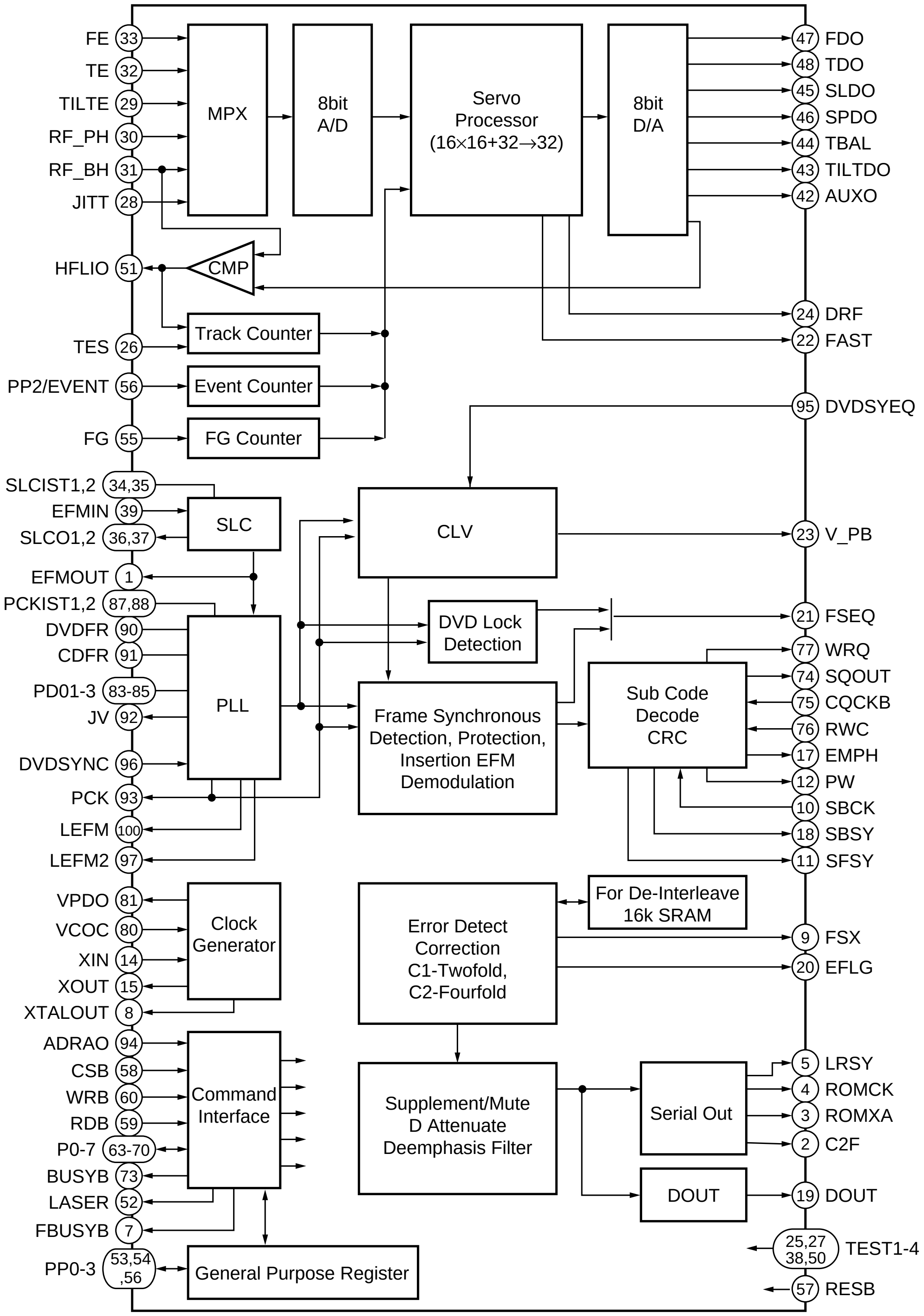
- RF IC

● Block Diagram



REF 64
RFOUT 63
PHC 62
BHC 61
PHI 60
BHI 59
AUX 58
PH 57
BH 56
GND 55
RFO 54
TC 53
EQI1 52
DEFC 51
EQO1 50
EQO2 49
PDRF– 1
REF1 2
RF1 3
GND 4
PDRF 5
PD1 6
PD2 7
PD3 8
PD4 9
VCC 10
FIN1 11
FIN2 12
PD5 13
PD6 14
LDD1 15
LDS1 16
48 EQI2
47 VCC
46 EFMO
45 N/C
44 DEF
43 RREC
42 FE
41 TE–
40 TEO
39 CP
38 TLP
37 THC
36 VCC
35 TE
34 TESI
33 TES
17 LDD2
18 LDS2
19 LDON1
20 LDON2
21 GND
22 AGOF
23 XQBH
24 XHTR
25 DVD/CD
26 DPD/TE
27 CPOF
28 TH
29 AUX/RR
30 TEBAL
31 FFBAL
32 SGC
REF
VCC
PH
BH
PH
BH
DVD
CD
REF
VCC
Scratch Detection
LIM
PD
CP
VCC
REF
REF
REF
REF
REF
REF
REF
VCC
REF
DVD
CD
APC
APC

LC78652W (DVDM ASSY : IC201)


FE 33
TE 32
TILTE 29
RF_PH 30
RF_BH 31
JITT 28
MPX
8bit
A/D
Servo
Processor
(16×16+32→32)
8bit
D/A
47 FDO
48 TDO
45 SLDO
46 SPDO
44 TBAL
43 TILTDO
42 AUXO
HFLIO 51
CMP
24 DRF
22 FAST
TES 26
Track Counter
PP2/EVENT 56
Event Counter
FG 55
FG Counter
95 DVDSYEQ
SLCIST1,2 34,35
EFMIN 39
SLC
SLCO1,2 36,37
CLV
23 V_PB
EFMOUT 1
PCKIST1,2 87,88
DVD Lock
Detection
21 FSEQ
DVDFR 90
CDFR 91
77 WRQ
74 SQOUT
75 CQCKB
76 RWC
17 EMPH
12 PW
10 SBCK
18 SBSY
11 SFSY
PD01-3 83-85
PLL
JV 92
Frame Synchronous
Detection, Protection,
Insertion EFM
Demodulation
Sub Code
Decode
CRC
DVDSYNC 96
PCK 93
LEFM 100
LEFM2 97
VPDO 81
VCOC 80
XIN 14
XOUT 15
XTALOUT 8
Clock
Generator
Error Detect
Correction
C1-Twofold,
C2-Fourfold
For De-Interleave
16k SRAM
9 FSX
20 EFLG
ADRAO 94
CSB 58
WRB 60
RDB 59
P0-7 63-70
BUSYB 73
LASER 52
FBUSYB 7
Command
Interface
Supplement/Mute
D Attenuate
Deemphasis Filter
Serial Out
5 LRSY
4 ROMCK
3 ROMXA
2 C2F
DOUT
19 DOUT
25,27
38,50
TEST1-4
PP0-3 53,54
,56
General Purpose Register
57 RESB

LC78652W (DVDM ASSY : IC201)

No.	Pin Name	I/O	Function
1	EFMOUT	O	Output the state that was binary-stated value EFM
2	C2F	O	C2 flag output
3	ROMXA	O	CD-ROM data output
4	ROMCK	O	Shift clock output for CD-ROM data output
5	LRSY	O	L/R clock output for CD-ROM data output
6	PP3	I/O	General-purpose port input/output / DVD sync. signal input N ch-OD output
7	FBUSYB	O	Busy signal output of DSP process operation N ch-OD output
8	XTALOUT	O	External system clock output
9	FSX	O	CD 1 frame sync. signal output
10	SBCK	I	Subcode reading out clock input
11	SFSY	O	Frame sync. signal output of subcode
12	PW	O	Subcode P, Q, R, S, T, U, V and W output
13	VSS	–	GND pin
14	XIN	I	Connect a crystal resonator (16.9344MHz)
15	XOUT	O	Connect a crystal resonator
16	DVDD1	–	3.3V power supply of the oscillation circuit
17	EMPH	O	Monitor pin of the deemphasis
18	SBSY	O	Sync. signal output of the subcode block
19	DOUT	O	Audio EIAJ data output
20	EFLG	O	Error correction state monitor of the error correction C1 and C2
21	FSEQ	O	Detection monitor of the CD/DVD frame sync. signal
22	FAST	O	Playback speed monitor N ch-OD output
23	V_PB	O	Monitor output of the rough servo/CLV control
24	DRF	O	In focus monitor
25	TEST3	I	Test input 3
26	TES	I	Tracking error signal input
27	TEST2	I	Test input 2
28	JITT	I	Jitter quantity detecting signal input of EFM PLL
29	TILTE	I	Tilt error signal input
30	RF_PH	I	RF peak hold signal input
31	RF_BH	I	RF bottom hold signal input
32	TE	I	Tracking error signal input
33	FE	I	Focus error signal input
34	SLCIST1	–	Current setting pin 1 of the constant current charge pump for SLC
35	SLCIST2	–	Current setting pin 2 of the constant current charge pump for SLC
36	SLCO1	O	Control output 1 for SLC
37	SLCO2	O	Control output 2 for SLC
38	TEST1	I	Test input 1
39	EFMIN	I	EFM/EFM + input
40	AVDD	–	5V power supply of A/D and D/A for servo
41	AVSS	–	GND of A/D and D/A for servo
42	AUXO	O	DA auxiliary output
43	TILTDO	O	Tilt control signal output
44	TBAL	O	Tracking balance control signal output
45	SLDO	O	Sled control signal output
46	SPDO	O	Spindle control signal output
47	FDO	O	Focus control signal output
48	TDO	O	Tracking control signal output
49	VREF	–	Reference level of D/A for servo
50	TEST4	I	Test input 4

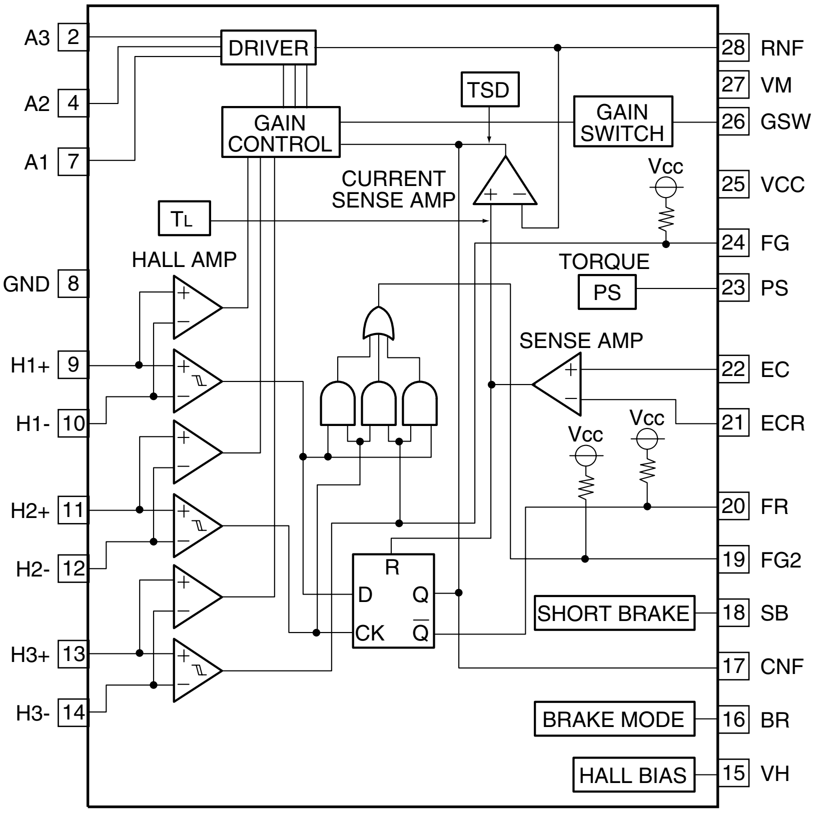
LC78652W (DVDM ASSY : IC201)

No.	Pin Name	I/O	Pin Function
51	HFLIO	I/O	Mirror detection signal input/output
52	LASER	O	Output pin for laser ON/OFF control
53	PP0/DVD_CDB	I/O	General-purpose port input/output / Disc discrimination signal output
54	PP1/CRCERRB	I/O	General-purpose port input/output / Subcode CRC result signal output
55	FG	I	FG counter input
56	PP2/EVENT	I/O	General-purpose port input/output / Event counter input
57	RESB	I	Reset input
58	CSB	I	Chip select input
59	RDB	I	Internal state reading signal input
60	WRB	I	Command / data writing signal input
61	DVDD2	–	5V power supply
62	VSS	–	GND
63	P0	I/O	Command / data input/output
64	P1		
65	P2		
66	P3		
67	P4		
68	P5		
69	P6		
70	P7		
71	VSS	–	GND
72	DVDD1	–	3.3V power supply for internal
73	BUSYB	O	Busy signal output of command process
74	SQOUT	O	Serial output of subcode Q
75	CQCKB	I	Shift clock input for subcode Q data output
76	RWC	I	Update permission input of subcode Q
77	WRQ	O	Read out ready monitor of subcode Q
78	AVSS	–	PLL GND for internal system clock
79	VRPFR	–	VCO oscillation range setting of PLL for system clock
80	VCOC	I	Connect a PLL filter for system clock
81	VPDO	O	
82	AVDD	–	PLL 5V power supply for system clock
83	PDO1	I/O	PLL filter connection pin 1 for EFM playback
84	PDO2	I/O	PLL filter connection pin 2 for EFM playback
85	PDO3	I/O	PLL filter connection pin 3 for EFM playback
86	AVSS	–	PLL GND for EFM playback
87	PCKIST1	–	Current setting 1 of PLL constant current charge pump for EFM playback
88	PCKIST2	–	Current setting 2 of PLL constant current charge pump for EFM playback
89	AVDD	–	PLL 5V power supply for EFM playback
90	DVDFR	–	VCO oscillation range setting of PLL for EFM playback 1
91	CDFR	–	VCO oscillation range setting of PLL for EFM playback 2
92	JV	O	Jitter output of PLL clock for EFM playback
93	PCK	O	Bit clock output for EFM playback
94	ADRAO	I	Address input
95	DVDSYEQ	I	DVD synchronize pulse input
96	DVDSYNC	I	DVD synchronous signal input
97	LEFM2	O	Output the state that cut and out a signal which was binary-stated value EFM with PCK 2
98	DVDD1	–	3.3V power supply for I/O
99	VSS	–	GND
100	LEFM	O	Output the state that cut and out a signal which was binary-stated value EFM with PCK 1

■ BA6664FM (DVDM ASSY : IC251)

- **Three-phase Motor Driver**

● Block Diagram



A3 2
A2 4
A1 7
GND 8
H1+ 9
H1- 10
H2+ 11
H2- 12
H3+ 13
H3- 14
DRIVER
GAIN CONTROL
TSD
GAIN SWITCH
CURRENT SENSE AMP
TL
HALL AMP
TORQUE
PS
SENSE AMP
Vcc
R
D
Q
CK
Q
SHORT BRAKE
BRAKE MODE
HALL BIAS
28 RNF
27 VM
26 GSW
25 VCC
24 FG
23 PS
22 EC
21 ECR
20 FR
19 FG2
18 SB
17 CNF
16 BR
15 VH

● Block Diagram

No.	Pin Name	Pin Function	No.	Pin Name	Pin Function
1	N.C.	N.C.	16	BR	Brake mode switching pin
2	A3	Output pin	17	CNF	Capacitor connection pin for phase compensation
3	N.C.	N.C.	18	SB	Short brake pin
4	A2	Output pin	19	FG2	FG 3-phase mix signal output pin
5	N.C.	N.C.	20	FR	Rotation detecting pin
6	N.C.	N.C.	21	ECR	Control reference pin of output voltage
7	A1	Output pin	22	EC	Output voltage control pin
8	GND	GND pin	23	PS	Power save pin
9	H1+	Hall signal input pins	24	FG	FG signal output pin
10	H1-		25	VCC	Power supply pin
11	H2+		26	GSW	Gain switching pin
12	H2-		27	VM	Motor power pin
13	H3+		28	RNF	Resistor connection pin for output current detection
14	H3-		FIN	FIN	GND
15	VH	Hall bias pin			

■ PD6345A (DVDM ASSY : IC601)

• FR CPU

● Pin Function

No.	Mark	Pin Name	I/O	Pin Function
1	P20/D16	D0	I/O	Data bus input/output
2	P21/D17	D1		
3	P22/D18	D2		
4	P23/D19	D3		
5	P24/D20	D4		
6	P25/D21	D5		
7	P26/D22	D6		
8	P27/D23	D7		
9	P30/D24	D8		
10	P31/D25	D9		
11	P32/D26	D10		
12	P33/D27	D11		
13	P34/D28	D12		
14	P35/D29	D13		
15	P36/D30	D14		
16	P37/D31	D15		
17	VSS	GND	–	Ground
18	P40/A00	A0	O	Address bus output
19	P41/A01	A1		
20	P42/A02	A2		
21	P43/A03	A3		
22	P44/A04	A4		
23	P45/A05	A5		
24	P46/A06	A6		
25	P47/A07	A7		
26	VCC3	V+3.3D	–	Power supply
27	VCC2	V+2.5D	–	Power supply
28	P50/A08	A8	O	Address bus output
29	P51/A09	A9		
30	P52/A10	A10		
31	P53/A11	A11		
32	P54/A12	A12		
33	P55/A13	A13		
34	P56/A14	A14		
35	P57/A15	A15		
36	VSS	GND	–	Ground
37	P60/A16	A16	O	Address bus output
38	P61/A17	A17		
39	P62/A18	A18		
40	P63/A19	A19		
41	P64/A20	A20		
42	P65/A21	TOFSTA	O	Tracking offset injection -A for servo
43	P66/A22	TOFSTC	O	Tracking offset injection -C for servo
44	P67/A23	WBL	O	For Wobble detection corresponding to DVD R/W (main)
45	DAVS	GND	–	Ground
46	DAVC	V+3.3D	–	Power supply
47	DA0	STEP1	I	For stepping motor control
48	DA1	STEP2	I	
49	DA2	LODRV	I	Loading, door and select motor drive

No.	Mark	Pin Name	I/O	Pin Function
50	AN0	STEP2	I	For stepper control 2 For offset cancel of D/A output
51	AN1	STEP1	I	For stepper control 1 For offset cancel of D/A output
52	AN2	NAP SW	I	Rear panel H/M/L=M/A/P
53	AN3	XOEM	I	OEM model protection input
54	AN4	LD CUR	I	Input for LD current value indication
55	AN5	SELPOS	I	Tray selector input of microchanger
56	AN6	CLAMPSW	I	Clamp position SW input
57	AN7	LODPOS	I	Loading clamp position SW input
58	AVCC	V+3.3D	–	Power supply
59	AVRH	V+3.3D	–	Power supply
60	AVSS/AVRI	GND	–	Ground
61	VSS	GND	–	Ground
62	PP0/ATGX	SLDPOS	I	SW input of slider inside position
63	PP1/FRCK	GSW	O	Gain up at ACBR (at ACBR: H, others: L)
64	PP2/IN0	780ON	I	ON/OFF control signal of 780nm laser diode
65	PP3/IN1	SEDO	O	Tray rotation drive output
66	PP4/IN2	XMON	O	Mute of DRV (spindle motor ON: H)
67	PP5/IN3	XDRVMUT	O	FTS driver mute output
68	PP6	LT1	O	Communication response to the FL controller
69	PP7	XRDY	I	Communication request from the FL controller
70	VCC3	V+3.3D	–	Power supply
71	VCC2	V+2.5D	–	Power supply
72	PO0/OC0	XCURDET	I	Actuator current detection input Servo OFF for "L" 300ms
73	PO1/OC1	XCBUSY	I	Busy signal of command process Command acceptable : "L"
74	PO2/OC2	XDSPRST	O	Servo DSP reset
75	PO3/OC3	BCA	–	BCA read signal (at BCA read: H) (Not used)
76	PO4/OC4	DSCSNS/ XCD4X	I/O	Disc detection pulse "L": Disc exist Correspond to fourth speed CD playback ("L": Fourth speed)
77	PO5/OC5	PPCNT	O	Switch of TZC in WBL traversal (at PP: H)
78	PO6/OC6	XDFINH	O	Defect signal control (DEFECT ON: Hi-Z; OFF: "L")
79	PO7/OC7	DPD/TE	O	H=1 beam, L=3 beams
80	VSS	GND	–	Ground
81	PN0/AIN0	DVD/XCD	O	RF EQ switching signal at DVD/CD "H": DVD, "L": CD
82	PN1/BIN0	AGOFF	O	"H": Turn off AGC of RFIC
83	PN2/AIN1	650X780	O	780nm/650nm switching signal
84	PN3/BIN1	LD ON	O	ON/OFF control signal of laser diode
85	PN4/AIN2	FOFST2	O	Focus offset adjustment 1 (Tri-value control "H", "L", Hi-Z)
86	PN5/BIN2	FOFST1	O	Focus offset adjustment 2 (Tri-value control "H", "L", Hi-Z)
87	PN6/AIN3	XCD2X	O	For VCD double speed playback
88	PN7/BIN3	OEICG	O	"H": Gain of OEIC up to 6dB
89	PM0/ZIN0	TRYPOS	I	Count input of disc number
90	PM1/ZIN1	N/XP SW	O	Video encoder control port (NTSC/PAL)
91	PM2/ZIN2	V SEL	O	(Composite, S) / (YCbCr) or (RGB) switch
92	PM3/ZIN3	V SEL2	O	(Composite) of skirt terminal / (S) switch
93	PL0/SDA1	SDAI		12C control lines
94	PL1/SDA0	SDAO		
95	PL2/SCL1	SCLI		
96	PL3/SCL0	SCLO		
97	PL4	CTS	I	RS-232C clear to send input
98	PL5	DTR	O	RS-232C clear to send output
99	PL6/UC0	-	–	–
100	VSS	GND	–	Ground

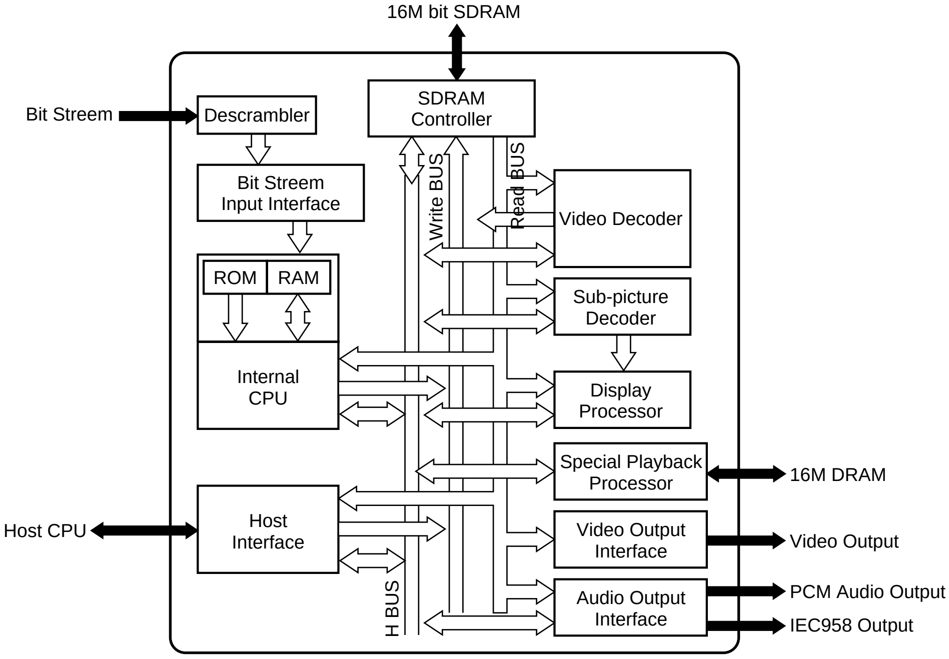
No.	Mark	Pin Name	I/O	Pin Function
101	PK0/TIN0	XVQERST	O	VQE3 reset signal
102	PK1/TIN1	XCSPRO1	–	Serial communication enable of the progressive converter IC
103	PK2/TIN2	XCSVQE5	–	Serial communication enable of VQE5 IC
104	PK3/TIN3	N.C.	–	N.C.
105	PK4/TOT0	44X48	O	DAC and DASP supply clock fs 44/48 selection
106	PK5/TOT1	DI ERR	I	DIR reception error (unlock signal) input
107	PK6/TOT2	XMICON2 AOSEL1	O	Mic center MIX signal for multi CH AV-1/audio DSP switch (front L/R data)
108	PK7/TOT3	AOSEL0	–	AV1 output AOD and AO0 switch
109	VCC3	V+3.3D	–	Power supply
110	VCC2	V+2.5D	–	Power supply
111	PJ0/INT0	XINT0	I	
112	PJ1/INT1	XINT1	I	
113	PJ2/INT2	XIRQ10	I	MY chip interrupt #0
114	PJ3/INT3	XIRQ11	I	MY chip interrupt #1
115	PJ4/INT4	XABUSY	I	Busy signal of DSP process operation "L"
116	PJ5/INT5	THLD	I	Playback speed monitoring signal
117	PJ6/INT6	SBSY	I	Sync. signal of subcode block (period SO+SI "H")
118	PJ7/INT7	N.C.	I	N.C.
119	PI0/SI0	SSI	I	Serial bus data input
120	PI1/SO0	SSO	O	Serial bus data output
121	PI2/SCK0	SSCK	I	Serial bus clock input
122	PI3/SI1	RXD	I	RS-232C RXD
123	PI4/SO1	TXD	O	RS-232C TXD
124	PI5/SCK1	SELMOD	–	Audio DSP mode switch
125	PH0/SI2	RESET2	–	Reset for DSP 2
126	PH1/SO2	XCSADSP1	O	CS for DSP 2
127	PH2/SCK2	XCSSPD	–	Latch signal of serial/parallel IC for generating audio DSP control signal
128	MD0	GND	–	Ground
129	MD1	GND	–	
130	MD2	GND	–	
131	VSS	GND	–	Ground
132	VCC2	V+2.5D	–	Power supply
133	VSS	GND	–	Ground
134	X1	EXTAL	O	
135	X0	XTAL	I	
136	VCC3	V+3.3D	–	Power supply
137	PC0/DREQ2	LFEON RESET1	O	Select Mix to front L/R of LFE element DSP 1 reset
138	PC1/DACK2	XMICON1 AV1/XSDSP	O	Mic front L/R MIX signal for 2 ch AV-1/servo DSP switch
139	PC2/DEOP2	6CHMD	O	DAC output 2 ch/6 ch switch (←XDVRST2)
140	PB0/DREQ0	XDREQ0	I	DMA response output to BY Chip
141	PB1/DACK0	DACK0	O	DMA request input from BY Chip
142	PB2/DEOP0	N.C.	–	N.C.
143	PB3/DREQ1	XDREQ1	I	DMA response output to AV-1 Chip
144	PB4/DACK1	XDACK1	O	DMA request input from AV-1 Chip
145	PB5/DEOP1	XEXCKON	O	ON/OFF switch of DSP external clock
146	PB6/IOWRX	DOISEL1	O	Digital output switch 1 of audio DSP (AV-1. DSP and GND)
147	PB7/IORDX	DOISEL2	O	Digital output switch 2 of audio DSP (AV-1. DSP and GND)
148	VSS	GND	–	Ground
149	PA0/CSOX	XCS20	O	Chip select output to Flash ROM
150	PA1/CS1X	XCS6	O	AV-1 Chip select

No.	Mark	Pin Name	I/O	Pin Function
151	PA2/CS2X	XCS3	O	Chip select of PD4995A (MY Chip)
152	PA3/CS3X	XCS4	O	Chip select of servo DSP
153	PA4/CS4X	XCS23	O	Chip select output to SRAM (1M)
154	PA5/CS5X	N.C.	O	N.C.
155	PA6/CS6X	N.C.	O	N.C.
156	PA7/CS7X	N.C.	O	N.C.
157	VCC3	V+3.3D	–	Power supply
158	VCC2	V+2.5D	–	Power supply
159	NMIX	–	–	V+3.3D fixed
160	HSTX	–	–	V+2.5D fixed
161	INITX	XINIT	I	
162	P80/RDY	RDY	I	
163	P81/BGRNTX	XAMUTE	I	Final stage mute of 2 ch audio output
164	P82/BRQ	XMMUTE	O	Audio multi channel mute
165	P83/RDX	XRD	O	
166	P84/WR0X	XWR0	O	
167	P85/WR1X	XWR1	O	
168	VSS	GND	–	Ground
169	P90/SYSCLK	SYSCLK	O	
170	P91	DFRST	–	DAC reset (for front L/R)
171	P92/MCLK	DFRST1	–	DAC reset (for center, surround and LFE)
172	P93	XCSDF0	O	DAC chip select (←XLAT3)
173	P94/LBAX	XCSDF1	O	DAC chip select for center, surround and LFE
174	P95/BAAX	XAQRST	O	AQE reset
175	P96	XCSAQE	O	AQE chip select
176	P97/WEX	TM ENT	I	Test mode entry

■ M65774BFP (DVDM ASSY : IC801)

• MPEG2 Decoder IC

● Block Diagram



16M bit SDRAM
Bit Streem
Descrambler
SDRAM Controller
Bit Streem Input Interface
Write BUS
Read BUS
Video Decoder
ROM
RAM
Sub-picture Decoder
Internal CPU
Display Processor
Special Playback Processor
16M DRAM
Host CPU
Host Interface
Video Output Interface
Video Output
H BUS
Audio Output Interface
PCM Audio Output
IEC958 Output

● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	GND	I	Ground	21	5VDD	I	5V power supply
2	HD0	I/O	Data input and output port	22	HD15	I/O	Data input and output port
3	HD1			23	CS	I	Chip select signal input
4	HD2			24	RE	I	Read Enable signal input
5	HD3			25	WE	I	Write Enable signal input
6	HD4			26	BHE	I	Byte High Enable signal input
7	5VDD	I	5V power supply	27	RDY	O	Acknowledge signal which is indicated the finish of data reading or writing via the host bus
8	VDD	I	Power supply	28	INTR	O	Interrupt request signal against to the external CPU from M65773FP
9	HD5	I/O	Data input and output port	29	GND	I	Ground
10	HD6			30	HA0	I	Address input port
11	HD7			31	HA1		
12	HD8			32	HA2		
13	HD9			33	HA3		
14	GND	I	Ground	34	HA4		
15	HD10	I/O	Data input and output port	35	VDD	I	Power supply
16	HD11			36	5VDD	I	5V power supply
17	HD12			37	HA5	I	Address input port
18	HD13			38	HA6		
19	HD14			39	HA7		
20	VDD	I	Power supply	40	HA8		

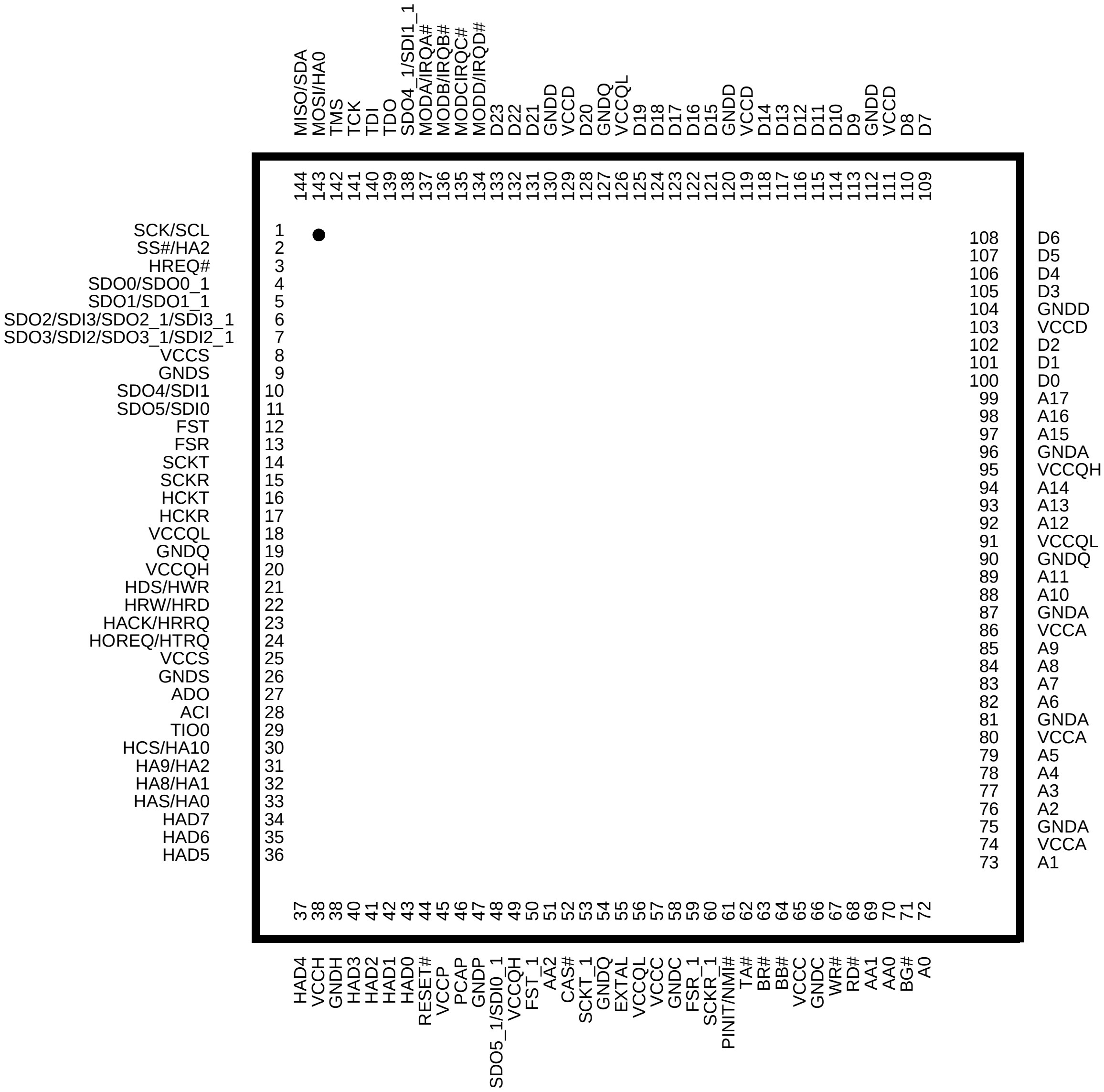
No.	Pin Name	I/O	Pin Function
41	HA9	I	Address input port
42	GND	I	Ground
43	CDMCK	I	Connect to ground
44	CDLRCK	I	L/R clock clock input from CDDSP
45	CDBCK	I	PCM bit clock input from CDDSP
46	CDDATA	I	Digital audio interface input
47	VDD	I	Power supply
48	CDDIN	I	PCM audio data input from CDDSP
49	INT2	O	Interrupt request signal against to the external CPU from M65773FP
50	INT3		
51	DREQ	O	DMA request signal for OSD bitmap transfer
52	DACK	I	DMA acknowledge signal for OSD bitmap transfer
53	GND	I	Ground
54	CLKO	O	27MHz clock output
55	CLKIN	I	System clock input
56	AVDD1	I	Analog power supply
57	AGND1	I	Analog ground
58	AGND3		
59	AVDD3	I	Analog power supply
60	CCAP	I	Connect to ground
61	AGND2	I	Analog ground
62	AVDD2	I	Analog power supply
63	ACLKO	–	Open
64	ACLKI	I	Audio clock input
65	HMODE1	I	Setting pin of host interface operating mode
66	GND	I	Ground
67	VDD	I	Power supply
68	AOD	O	PCM output of audio data
69	AO2		
70	AO1		
71	AO0		
72	GND	I	Ground
73	DOUT1	O	Digital audio interface output
74	DOUT0		
75	SDA	–	Open
76	SCL	–	Open
77	VDD	I	Power supply
78	GND	I	Ground
79	DACCLK	O	Over-sampling operating clock output
80	DOCLK	O	PCM bit clock output
81	LRCLK	O	Clock output for discriminating the channel (L/R) of PCM audio data
82	HMODE0	I	Setting pin of host interface operating mode
83	VDD	I	Power supply
84	VSYNC	O	Vertiacl sync. signal output
85	HSYNC	O	Horizontal sync. signal output
86	PICSTRT		
87	MBSTRT		
88	MBDATA		
89	GND	I	Ground
90	PWD	O	Phase comparator output for external sync. operation
91	CSYNC	I	Composite SYNC signal input
92	OSDKEY	O	OSD key flag output
93	PXCLK	O	Pixel clock (27MHz free-running clock)
94	VDD	I	Power supply
95	PD7	O	Digital pixel data
96	PD6		
97	PD5		
98	PD4		
99	GND	I	Ground
100	PD3	O	Digital pixel data
101	PD2		
102	PD1		
103	PD0		
104	VDD	I	Power supply
105	GND	I	Ground
106	RESET	I	Hardware reset input
107	TEST0	I	Connect to ground normally
108	TEST1		
109	TEST2		
110	VDD	I	Power supply
111	NMD0	I/O	Data transfer line with DRAM
112	NMD15		
113	NMD1		
114	NMD14		
115	GND	I	Ground
116	NMD2	I/O	Data transfer line with DRAM
117	NMD13		
118	NMD3		
119	NMD12		
120	VDD	I	Power supply
121	NMD4	I/O	Data transfer line with DRAM
122	NMD11		
123	NMD5		
124	NMD10		

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
125	GND	I	Ground	167	MA5	O	Address line with SDRAM
126	NMD6	I/O	Data transfer line with DRAM	168	GND	I	Ground
127	NMD9			169	MA1	O	Address line with SDRAM
128	NMD7			170	MA6		
129	NMD8			171	MA0		
130	VDD	I	Power supply	172	MA7		
131	NCAS0	O	CAS (Column Address Strobe) control line of DRAM	173	VDD	I	Power supply
132	NWE	O	WE control line of DRAM	174	MA10	O	Address line with SDRAM
133	NCAS1	O	CAS (Column Address Strobe) control line of DRAM	175	MA8		
134	NRAS	O	RAS (Row Address Strobe) control line of DRAM	176	MA11		
135	GND	I	Ground	177	MA9		
136	NMA9	O	Address line with DRAM	178	GND	I	Ground
137	NMA8			179	DCS	O	Chip select of SDRAM
138	VDD	I	Power supply	180	RAS	O	RAS (Row Address Strobe) control line of SDRAM
139	NMA0	O	Address line with DRAM	181	CAS	O	CAS (Column Address Strobe) control line of SDRAM
140	NMA7			182	VDD	I	Power supply
141	NMA1			183	MCLK	O	Operation clock of SDRAM
142	NMA6			184	GND	I	Ground
143	GND	I	Ground	185	DWE	O	WE control line of SDRAM
144	NMA2	O	Address line with DRAM	186	DQMU	O	DQM control line of SDRAM Use for mask of upper byte output.
145	NMA5			187	DQML	O	DQM control line of SDRAM Use for mask of lower byte output.
146	NMA3			188	VDD	I	Power supply
147	NMA4			189	MD7	I/O	Data transfer line with SDRAM
148	VDD	I	Power supply	190	MD8		
149	BD7	I	Bit stream input port	191	MD6		
150	BD6			192	MD9		
151	GND	I	Ground	193	GND	I	Ground
152	BD5	I	Bit stream input port	194	MD5	I/O	Data transfer line with SDRAM
153	BD4			195	MD10		
154	BD3			196	MD4		
155	BD2			197	MD11		
156	VDD	I	Power supply	198	VDD	I	Power supply
157	GND	I	Ground	199	MD3	I/O	Data transfer line with SDRAM
158	BD1	I	Bit stream input port	200	MD12		
159	BD0			201	MD2		
160	BCLK	I	Strobe signal (clock) of BD port	202	MD13		
161	BDEN	I	Indicates the effective or invalid data which is sampled from BD port	203	GND	I	Ground
162	BDREQ	O	Output permission signal against to the device (channel decoder) which connecting to BD port	204	MD1	I/O	Data transfer line with SDRAM
163	VDD	I	Power supply	205	MD14		
164	MA3	O	Address line with SDRAM	206	MD0		
165	MA4			207	MD15		
166	MA2			208	VDD	I	Power supply

■ XCA56367PV150 (DVDM ASSY : IC901)

- **DVD-Audio decoder**

● Pin Arrangement


144 MISO/SDA
143 MOSI/HA0
142 TMS
141 TCK
140 TDI
139 TDO
138 SDO4_1/SDI1_1
137 MODA/IRQA#
136 MODB/IRQB#
135 MODC/IRQC#
134 MODD/IRQD#
133 D23
132 D22
131 D21
130 GNDD
129 VCCD
128 D20
127 GNDQ
126 VCCQL
125 D19
124 D18
123 D17
122 D16
121 D15
120 GNDD
119 VCCD
118 D14
117 D13
116 D12
115 D11
114 D10
113 D9
112 GNDD
111 VCCD
110 D8
109 D7
1 SCK/SCL
2 SS#/HA2
3 HREQ#
4 SDO0/SDO0_1
5 SDO1/SDO1_1
6 SDO2/SDI3/SDO2_1/SDI3_1
7 SDO3/SDI2/SDO3_1/SDI2_1
8 VCCS
9 GNDS
10 SDO4/SDI1
11 SDO5/SDI0
12 FST
13 FSR
14 SCKT
15 SCKR
16 HCKT
17 HCKR
18 VCCQL
19 GNDQ
20 VCCQH
21 HDS/HWR
22 HRW/HRD
23 HACK/HRRQ
24 HOREQ/HTRQ
25 VCCS
26 GNDS
27 ADO
28 ACI
29 TIO0
30 HCS/HA10
31 HA9/HA2
32 HA8/HA1
33 HAS/HA0
34 HAD7
35 HAD6
36 HAD5
108 D6
107 D5
106 D4
105 D3
104 GNDD
103 VCCD
102 D2
101 D1
100 D0
99 A17
98 A16
97 A15
96 GNDA
95 VCCQH
94 A14
93 A13
92 A12
91 VCCQL
90 GNDQ
89 A11
88 A10
87 GNDA
86 VCCA
85 A9
84 A8
83 A7
82 A6
81 GNDA
80 VCCA
79 A5
78 A4
77 A3
76 A2
75 GNDA
74 VCCA
73 A1
37 HAD4
38 VCCH
38 GNDH
40 HAD3
41 HAD2
42 HAD1
43 HAD0
44 RESET#
45 VCCP
46 PCAP
47 GNDP
48 SDO5_1/SDI0_1
49 VCCQH
50 FST_1
51 AA2
52 CAS#
53 SCKT_1
54 GNDQ
55 EXTAL
56 VCCQL
57 VCCC
58 GNDC
59 FSR_1
60 SCKR_1
61 PINIT/NMI#
62 TA#
63 BR#
64 BB#
65 VCCC
66 GNDC
67 WR#
68 RD#
69 AA1
70 AA0
71 BG#
72 A0

No.	Pin Name	I/O	Function
1	SCK	I	A clock for host serial communication
2	SS	I	for serial communication
3	HREQ#	O	SHI transfer permission information
4	SDO0	O	ESAI Lf/Rf, L/R 2ch data output
5	SDO1	O	ESAI Ls/Rs, (surround system data) output
6	SDO2	O	ESAI center /Lfe output
7	SDO3	O	N.C.
8	VCCS	–	ESSI, SCI, Timer Power
9	GNDS	–	ESSI, SCI, Timer GND
10	SDI1	I	N.C.
11	SDO5	O	down mixture output
12	FST	I/O	LRCK input/output
13	FSR	O	N.C.
14	SCKT	I/O	BCK input/output
15	SCKR	–	N.C.
16	HCKT	I	HCK input
17	HCKR	O	N.C.
18	VCCQL	–	Quiet Core Power 1.8V
19	GNDQ	–	Quiet GND
20	VCCQH	–	Quiet External Power
21	HDS	I	Data strike rope from MyChip
22	HRW	I	Port which selects a data transfer course between Digital Signal Processor as MyChip
23	HACK	O	GPIO output (for error notice to a microcomputer)
24	HOREQ	O	GPIO output (a request to SCRUT)
25	VCCS	–	ESSI, SCI, Timer Power
26	GNDS	–	ESSI, SCI, Timer GND
27	ADO	O	DAX data output
28	ACI	I	A clock for DAX
29	TIO0	O	SHI transfer permission information
30	HCS	O	GPIO output (decode buffer full information) GPIO output (Digital Signal Processor active state information)
31	HA2	I	Host Address Input 2
32	HA1	I	Host Address Input 1
33	HA0	I	Host Address Input 0
34	HAD7	I	Address/Data Bus
35	HAD6		
36	HAD5		

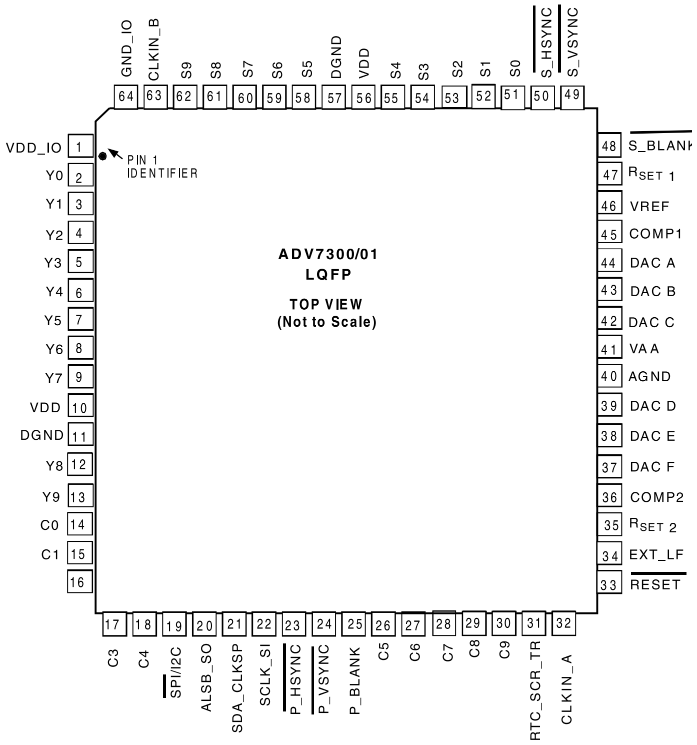
No.	Pin Name	I/O	Function
37	HAD4	I	Address/Data Bus
38	VCCH	–	Host Power
39	GNDH	–	Host GND
40	HAD3	I	Address/Data Bus
41	HAD2		
42	HAD1		
43	HAD0		
44	RESET	I	RESET
45	VCCP	–	PLL POWER
46	PCAP	I	Capacitor connection for PLL loop filter
47	GNDP	–	PLL GND
48	SDI0_1	I	Ls/Rs input
49	VCCQH	–	Quiet External Power
50	FST_1	I	LRCK
51	AA2	O	Chip select for memory
52	CAS	O	N.C.
53	SCKT_1	I	BCK
54	GNDQ	–	Quiet GND
55	EXTAL	I	27MHz clock
56	VCCQL	–	Quiet Core Power
57	VCCC	–	Bus Control Power
58	GNDC	–	Bus Control GND
59	FSR_1	–	N.C.
60	SCKR_1	–	N.C.
61	PINT	I	PLL Intial
62	TA	I	N.C.
63	BR	O	
64	BB	I	
65	VCCC	–	Bus Control Power
66	GNDC	–	Bus Control GND
67	WR	O	Wright signal for memory
68	RD	O	Read signal for memory
69	AA1	O	N.C.
70	AA0	O	
71	BG	I	
72	A0	O	Address Bus

No.	Pin Name	I/O	Function
73	A1	O	Address Bus
74	VCCA	–	Address Bus Power
75	GNDA	–	Address Bus GND
76	A2	O	Address Bus
77	A3		
78	A4		
79	A5		
80	VCCA	–	Address Bus Power
81	GNDA	–	Address Bus GND
82	A6	O	Address Bus
83	A7		
84	A8		
85	A9		
86	VCCA	–	Address Bus Power
87	GNDA	–	Address Bus GND
88	A10	O	Address Bus
89	A11		
90	GNDQ	–	Quiet GND
91	VCCQL	–	Quiet Core Power 1.8V
92	A12	O	Address Bus
93	A13		
94	A14		
95	VCCQH	–	Quiet External Power
96	GNDA	–	Address Bus GND
97	A15	O	Address Bus
98	A16		
99	A17		
100	D0	I/O	Data Bus
101	D1		
102	D2		
103	VCCD	–	Data Bus Power
104	GNDD	–	Data Bus GND
105	D3	I/O	Data Bus
106	D4		
107	D5		
108	D6		

No.	Pin Name	I/O	Function
109	D7	I/O	Data Bus
110	D8		
111	VCCD	–	Data Bus Power
112	GNDD	–	Data Bus GND
113	D9	I/O	Data Bus
114	D10		
115	D11		
116	D12		
117	D13		
118	D14		
119	VCCD	–	Data Bus Power
120	GNDD	–	Data Bus GND
121	D15	I/O	Data Bus
122	D16		
123	D17		
124	D18		
125	D19		
126	VCCQL	–	Quiet Core Power 1.8V
127	GNDQ	–	Quiet GND
128	D20	I/O	Data Bus
129	VCCD	–	Data Bus Power
130	GNDD	–	Data Bus GND
131	D21	I/O	Data Bus
132	D22		
133	D23		
134	MODD	I	Mode of operation choice
135	MODC		
136	MODB		
137	MODA		
138	SDI1_1	I	C/Lfe input
139	TDO	O	JTAG Test Data Output
140	TDI	I	JTAG Test Data Input
141	TCK	I	JTAG Test Clock
142	TMS	I	JTAG Test Mode Select
143	MOSI	I	SH serial data input
144	MOSO	O	SH serial data output

QA01 : ADV7300KST

- **Video Encoder IC**
- **Pin Arrangement**


GND_IO 64
CLKIN_B 63
S9 62
S8 61
S7 60
S6 59
S5 58
DGND 57
VDD 56
S4 55
S3 54
S2 53
S1 52
S0 51
S_HSYNC 50
S_VSYNC 49
VDD_IO 1
Y0 2
Y1 3
Y2 4
Y3 5
Y4 6
Y5 7
Y6 8
Y7 9
VDD 10
DGND 11
Y8 12
Y9 13
C0 14
C1 15
16
PIN 1 IDENTIFIER
ADV7300/01
LQFP
TOP VIEW
(Not to Scale)
48 S_BLANK
47 RSET 1
46 VREF
45 COMP1
44 DAC A
43 DAC B
42 DAC C
41 VAA
40 AGND
39 DAC D
38 DAC E
37 DAC F
36 COMP2
35 RSET 2
34 EXT_LF
33 RESET
17 C3
18 C4
19 SPI/I2C
20 ALSB_SO
21 SDA_CLKSP
22 SCLK_SI
23 P_HSYNC
24 P_VSYNC
25 P_BLANK
26 C5
27 C6
28 C7
29 C8
30 C9
31 RTC_SCR_TR
32 CLKIN_A

• Pin Function

Pin Mnemonic	Input/Output	Function
DGND	G	Digital Ground
AGND	G	Analog Ground
GND_IO	G	Digital Ground
CLKIN_B	I	Pixel Clock Input. Requires a 27MHz reference clock for Progressive Scan Mode or a 74.25MHz (74.1758MHz) reference clock in HDTV mode. This clock input pin is only used in simultaneous SD and HD mode.
CLKIN_A	I	Pixel Clock Input for HD only or SD only modes.
COMP	O	Compensation Pin for DACs. Connect 0.1μF Capacitor from COMP pin to V_{AA}.
DAC A	O	CVBS/ GREEN/ Y SD analog output.
DAC B	O	Luma/ BLUE/ U SD analog output.
DAC C	O	Chroma/ RED/ V SD analog output.
DAC D	O	in SD only mode: CVBS/GREEN/ Y analog output in HD only mode and simultaneous HD/SD : Y/ GREEN (HD) analog output.
DAC E	O	in SD only mode: Luma/BLUE/ U analog output in HD only mode and simultaneous HD/SD : Pr/ RED (HD) analog output.

Pin Mnemonic	Input/Output	Function
DAC F	O	in SD only mode: Chroma/RED/ V analog output in HD only mode and simultaneous HD/SD : Pb/ BLUE (HD) analog output.
P_BLANK	I	Video Blanking Control Signal for HD sync in simultaneous SD/HD mode and HD HD only mode.
$\overline{\mathrm{P}}\_\overline{\mathrm{HSYNC}}$	I	Video Horizontal Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
$\overline{\mathrm{P}}\_\overline{\mathrm{VSYNC}}$	I	Video Vertical Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
$\overline{\mathrm{S}}\_\overline{\mathrm{BLANK}}$	I/O	Video Blanking Control Signal for SD.
$\overline{\mathrm{S}}\_\overline{\mathrm{HSYNC}}$	I/O	Video Horizontal Control Signal for SD. Option to o/p SD HSYNC or HD HSYNC in SD Slave Mode 0 and/or any HD mode.
$\overline{\mathrm{S}}\_\overline{\mathrm{VSYNC}}$	I/O	Video Blanking Control Signal for SD. Option to o/p SD VSYNC or SD HSYNC in SD Slave Mode 0 and/or any HD mode.
C9-0	I	10-Bit Progressive scan/ HDTV input port for CrCb color data in 4:2:2 input mode. In 4:4:4 input mode this input port is used for the Cb [Blue/U] data. The LSBs are set up on pins C0, C1. In default mode the input on this port is output on DAC E.
Y9-0	I	10-Bit Progressive scan/ HDTV input port for Y data. The LSBs are set up on pins Y0, Y1. In default mode the input on this port is output on DAC D.
S9-S0	I	10-Bit Standard Definition input port. Or Progressive Scan/ HDTV input port for Cr [Red/V] color data in 4:4:4 input mode. The LSBs are set up on pins S0, S1. In default mode the input on this port is output on DAC F.
$\overline{\mathrm{RESET}}$	I	This input resets the on-chip timing generator and sets the ADV7300/01 into Default Register setting. Reset is an active low signal.
$R_{SET1,2}$	I	A 1520 Ohms resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.
SCL_SI	I	Multifunctional input: MPU Port Serial Interface Clock Input or SPI input.
SDA_CLKSP	I/O	Multifunctional pin: MPU Port Serial Data Input/Output or SPI clock input.
ALSB_SO	I/O	Multifunctional pin. TTL Address Input. This signal sets up the LSB of the MPU address. When this pin is tied low the I2C filter is activated which reduces noise on the I2C interface. When this pin is tied high, the input bandwidth on the I2C lines is increased. SPI output.
$\overline{\mathrm{SPI}}$/I2C	I	When this nput pin is brought low, the ADV7300/01 interfaces over the SPI port and uses this input as part of the 4 wire SPI nterface. When this input pin is tied high [Vdd_IO], the ADV7300/01 interfaces over the I2C port.
V_{DD_IO}	P	Digital power supply
V_{DD}	P	Digital power supply
V_{AA}	P	Analog power supply
V_{REF}	I/O	Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235V).
EXT_LF	I	External Loop filter for the internal PLL.
RTC_SCR_TR	I	Multifunctional Input: Real Time Control (RTC) nput, Timing Reset nput, Subcarrier Reset nput.

3.4 PCB PARTS LIST

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
				DVDM ASSY	VWS1513
002A		ZK02AK0210	ZK02AK0210	PCB DVDM ASSY	VWS1513
		nsp	nsp	**DVDM -SEMICONDUCTORS**	
IC261		HC10159210	HC10159210		BA4510F
IC281		HC10159210	HC10159210		BA4510F
IC302		HC10159210	HC10159210		BA4510F
IC251		*HC107930R	*HC107930R		BA6664FM
IC481		*HC107940R	*HC107940R		BU2288FV
IC702		*HC107950R	*HC107950R		GM71VS65803CLT-5
IC802		HC10092000	HC10092000		HY57V161610DTC-8
IC902		*HC107960R	*HC107960R		IS61LV6416-12T
IC903		*HC107970R	*HC107970R		IS63LV1024-12T
IC101		*HC105850R	*HC105850R		LA9701M
IC201		*HC105860R	*HC105860R		LC78652W
IC904		HC10412030	HC10412030		LC89051V
IC351		*HC107980R	*HC107980R		M56788AFP
IC804		*HC106040R	*HC106040R		M5M4V18165DTP-6
IC801		*HC107990R	*HC107990R		M65774BFP
IC909		*HC108000R	*HC108000R		MM1561JF
IC601		*HC108010R	*HC108010R		PD6345A
IC701		*HC107650R	*HC107650R		PE5220A
IC111		*HC800020R	*HC800020R		TC74HC4053AFT
IC271		*HC800020R	*HC800020R		TC74HC4053AFT
IC612		HC009405K0	HC009405K0		TC74VHC125FT
IC491		*HC107700R	*HC107700R		TC74VHC153FT
IC906		nsp	nsp		TC74VHC157FT
IC908		nsp	nsp		TC74VHC157FT
IC608		HC007805K0	HC007805K0		TC74VHCT125AFT
IC401		HC007705K0	HC007705K0		TC7SH04FU
IC911		HC007705K0	HC007705K0		TC7SH04FU
IC912		HC007705K0	HC007705K0		TC7SH04FU
IC913		HC007705K0	HC007705K0		TC7SH04FU
IC532		*HC105930R	*HC105930R		TC7SH32FU
IC303		*HC107740R	*HC107740R		TC7SZU04F
IC304		*HC107740R	*HC107740R		TC7SZU04F
IC306		*HC107740R	*HC107740R		TC7SZU04F
IC907		HC009005K0	HC009005K0		TC7WH125FU
IC905		HC009105K0	HC009105K0		TC7WH157FU
IC211		*HC108020R	*HC108020R		TK15404M
IC603		*HS02AKF0R	*HS02AKF0R		VYW1953
IC901		*HC108030R	*HC108030R		XCA56367PV150
Q109		HX100012AY	HX100012AY		2SA1576A
Q210		HX100012AY	HX100012AY		2SA1576A
Q114		HX300012B0	HX300012B0		2SC4081
Q130		HX300012B0	HX300012B0		2SC4081
Q107		BA20035210	BA20035210		DTC114EUA
Q111		BA20035210	BA20035210		DTC114EUA
Q115		BA20035210	BA20035210		DTC114EUA
Q241		BA20035210	BA20035210		DTC114EUA
Q271		BA20035210	BA20035210		DTC114EUA
Q281		BA20035210	BA20035210		DTC114EUA
Q101		BA10011050	BA10011050		HN1A01F
Q102		BA10011050	BA10011050		HN1A01F
Q106		BA10011050	BA10011050		HN1A01F
Q103		nsp	nsp		HN1B04FU
Q141		nsp	nsp		HN1B04FU
Q142		nsp	nsp		HN1B04FU
Q542		nsp	nsp		HN1B04FU
Q543		nsp	nsp		HN1B04FU
Q112		*BA000940R	*BA000940R		HN1C01FU
Q113		*BA000940R	*BA000940R		HN1C01FU
Q108		*BA000950R	*BA000950R		HN1K03FU

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
Q571		*BA000960R	*BA000960R		RN1911
Q117		*BA001030R	*BA001030R		RN4982
Q171		*BA001030R	*BA001030R		RN4982
Q601		*BA001030R	*BA001030R		RN4982
D302		*HZ400010R	*HZ400010R		KV1470
D303		*HZ400010R	*HZ400010R		KV1470
D601		*HZ200100R	*HZ200100R		RB501V-40
				DVDM -COILS AND FILTERS	
L946		nsp	nsp		LCYA1R0J2520
L304		nsp	nsp		LCYA1R5J2520
L315		*FC900270R	*FC900270R	CHIP BEADS	VTL1082
L418		*FC900270R	*FC900270R	CHIP BEADS	VTL1082
L489		*FC900270R	*FC900270R	CHIP BEADS	VTL1082
L893		*FC900270R	*FC900270R	CHIP BEADS	VTL1082
L516		*FC900270R	*FC900270R	CHIP BEADS	VTL1083
L517		*FC900270R	*FC900270R	CHIP BEADS	VTL1083
L518		*FC900270R	*FC900270R	CHIP BEADS	VTL1083
L519		*FC900270R	*FC900270R	CHIP BEADS	VTL1083
L520		*FC900270R	*FC900270R	CHIP BEADS	VTL1083
L521		*FC900270R	*FC900270R	CHIP BEADS	VTL1083
L522		*FC900270R	*FC900270R	CHIP BEADS	VTL1083
L523		*FC900270R	*FC900270R	CHIP BEADS	VTL1083
L481		*FC900240R	*FC900240R	CHIP BEADS	VTL1084
				DVDM -CAPACITORS	
C480		nsp	nsp		CCSRCH100D50
C481		nsp	nsp		CCSRCH100D50
C516		nsp	nsp		CCSRCH100D50
C517		nsp	nsp		CCSRCH100D50
C518		nsp	nsp		CCSRCH100D50
C519		nsp	nsp		CCSRCH100D50
C520		nsp	nsp		CCSRCH100D50
C521		nsp	nsp		CCSRCH100D50
C522		nsp	nsp		CCSRCH100D50
C523		nsp	nsp		CCSRCH100D50
C662		nsp	nsp		CCSRCH100D50
C152		nsp	nsp		CCSRCH101J50
C104		nsp	nsp		CCSRCH150J50
C105		nsp	nsp		CCSRCH150J50
C106		nsp	nsp		CCSRCH150J50
C107		nsp	nsp		CCSRCH150J50
C108		nsp	nsp		CCSRCH150J50
C314		nsp	nsp		CCSRCH150J50
C151		nsp	nsp		CCSRCH270J50
C324		nsp	nsp		CCSRCH331J50
C391		nsp	nsp		CCSRCH331J50
C392		nsp	nsp		CCSRCH331J50
C146		nsp	nsp		CCSRCH390J50
C122		nsp	nsp		CCSRCH391J50
C123		nsp	nsp		CCSRCH391J50
C116		nsp	nsp		CCSRCH470J50
C134		nsp	nsp		CCSRCH470J50
C283		nsp	nsp		CCSRCH470J50
C284		nsp	nsp		CCSRCH470J50
C297		nsp	nsp		CCSRCH470J50
C145		nsp	nsp		CCSRCH560J50
C241		nsp	nsp		CCSRCH560J50
C281		nsp	nsp		CCSRCH5R0C50
C282		nsp	nsp		CCSRCH5R0C50
C286		nsp	nsp		CCSRCH680J50
C117		nsp	nsp		CCSRCH681J50
C360		nsp	nsp		CCSRCH681J50
C124		nsp	nsp		CCSRCH820J50

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION
C128		nsp	nsp	CEV101M16
C142		nsp	nsp	CEV101M16
C189		nsp	nsp	CEV101M16
C201		nsp	nsp	CEV101M16
C233		nsp	nsp	CEV101M16
C254		nsp	nsp	CEV101M16
C358		nsp	nsp	CEV101M16
C364		nsp	nsp	CEV101M16
C368		nsp	nsp	CEV101M16
C369		nsp	nsp	CEV101M16
C401		nsp	nsp	CEV101M16
C407		nsp	nsp	CEV101M16
C413		nsp	nsp	CEV101M16
C944		nsp	nsp	CEV101M16
C113		nsp	nsp	CEV220M16
C139		nsp	nsp	CEV220M16
C147		nsp	nsp	CEV221M4
C219		nsp	nsp	CEV221M4
C237		nsp	nsp	CEV221M4
C326		nsp	nsp	CEV221M4
C410		nsp	nsp	CEV221M4
C620		nsp	nsp	CEV221M4
C701		nsp	nsp	CEV221M4
C710		nsp	nsp	CEV221M4
C803		nsp	nsp	CEV221M4
C822		nsp	nsp	CEV221M4
C902		nsp	nsp	CEV221M4
C992		nsp	nsp	CEV221M4
C111		nsp	nsp	CEV470M6R3
C207		nsp	nsp	CEV470M6R3
C140		nsp	nsp	CKSQYB105K10
C223		nsp	nsp	CKSQYB105K10
C224		nsp	nsp	CKSQYB105K10
C264		nsp	nsp	CKSQYB105K10
C312		nsp	nsp	CKSQYB105K10
C209		nsp	nsp	CKSRYB102K50
C211		nsp	nsp	CKSRYB102K50
C216		nsp	nsp	CKSRYB102K50
C275		nsp	nsp	CKSRYB102K50
C313		nsp	nsp	CKSRYB102K50
C351		nsp	nsp	CKSRYB102K50
C133		nsp	nsp	CKSRYB103K50
C136		nsp	nsp	CKSRYB103K50
C203		nsp	nsp	CKSRYB103K50
C220		nsp	nsp	CKSRYB103K50
C225		nsp	nsp	CKSRYB103K50
C234		nsp	nsp	CKSRYB103K50
C239		nsp	nsp	CKSRYB103K50
C261		nsp	nsp	CKSRYB103K50
C320		nsp	nsp	CKSRYB103K50
C321		nsp	nsp	CKSRYB103K50
C322		nsp	nsp	CKSRYB103K50
C330		nsp	nsp	CKSRYB103K50
C591		nsp	nsp	CKSRYB103K50
C619		nsp	nsp	CKSRYB103K50
C705		nsp	nsp	CKSRYB103K50
C707		nsp	nsp	CKSRYB103K50
C943		nsp	nsp	CKSRYB103K50
C947		nsp	nsp	CKSRYB103K50
C101		nsp	nsp	CKSRYB104K16
C103		nsp	nsp	CKSRYB104K16
C118		nsp	nsp	CKSRYB104K16
C119		nsp	nsp	CKSRYB104K16
C120		nsp	nsp	CKSRYB104K16

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION
C212		nsp	nsp	CKSRYB104K16
C213		nsp	nsp	CKSRYB104K16
C227		nsp	nsp	CKSRYB104K16
C231		nsp	nsp	CKSRYB104K16
C248		nsp	nsp	CKSRYB104K16
C249		nsp	nsp	CKSRYB104K16
C250		nsp	nsp	CKSRYB104K16
C251		nsp	nsp	CKSRYB104K16
C255		nsp	nsp	CKSRYB104K16
C263		nsp	nsp	CKSRYB104K16
C315		nsp	nsp	CKSRYB104K16
C317		nsp	nsp	CKSRYB104K16
C208		nsp	nsp	CKSRYB222K50
C210		nsp	nsp	CKSRYB222K50
C271		nsp	nsp	CKSRYB223K50
C272		nsp	nsp	CKSRYB223K50
C273		nsp	nsp	CKSRYB223K50
C274		nsp	nsp	CKSRYB223K50
C266		nsp	nsp	CKSRYB224K10
C206		nsp	nsp	CKSRYB472K50
C214		nsp	nsp	CKSRYB472K50
C242		nsp	nsp	CKSRYB472K50
C357		nsp	nsp	CKSRYB472K50
C946		nsp	nsp	CKSRYB473K50
C102		nsp	nsp	CKSRYF104Z25
C121		nsp	nsp	CKSRYF104Z25
C138		nsp	nsp	CKSRYF104Z25
C143		nsp	nsp	CKSRYF104Z25
C154		nsp	nsp	CKSRYF104Z25
C256		nsp	nsp	CKSRYF104Z25
C279		nsp	nsp	CKSRYF104Z25
C285		nsp	nsp	CKSRYF104Z25
C332		nsp	nsp	CKSRYF104Z25
C353		nsp	nsp	CKSRYF104Z25
C359		nsp	nsp	CKSRYF104Z25
C365		nsp	nsp	CKSRYF104Z25
C366		nsp	nsp	CKSRYF104Z25
C402		nsp	nsp	CKSRYF104Z25
C475		nsp	nsp	CKSRYF104Z25
C476		nsp	nsp	CKSRYF104Z25
C477		nsp	nsp	CKSRYF104Z25
C609		nsp	nsp	CKSRYF104Z25
C768		nsp	nsp	CKSRYF104Z25
C772		nsp	nsp	CKSRYF104Z25
C773		nsp	nsp	CKSRYF104Z25
C109		nsp	nsp	CKSRYF105Z10
C114		nsp	nsp	CKSRYF105Z10
C115		nsp	nsp	CKSRYF105Z10
C125		nsp	nsp	CKSRYF105Z10
C130		nsp	nsp	CKSRYF105Z10
C131		nsp	nsp	CKSRYF105Z10
C144		nsp	nsp	CKSRYF105Z10
C148		nsp	nsp	CKSRYF105Z10
C150		nsp	nsp	CKSRYF105Z10
C160		nsp	nsp	CKSRYF105Z10
C200		nsp	nsp	CKSRYF105Z10
C202		nsp	nsp	CKSRYF105Z10
C204		nsp	nsp	CKSRYF105Z10
C215		nsp	nsp	CKSRYF105Z10
C217		nsp	nsp	CKSRYF105Z10
C221		nsp	nsp	CKSRYF105Z10
C222		nsp	nsp	CKSRYF105Z10
C226		nsp	nsp	CKSRYF105Z10
C230		nsp	nsp	CKSRYF105Z10

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION
C232		nsp	nsp	CKSRYF105Z10
C236		nsp	nsp	CKSRYF105Z10
C253		nsp	nsp	CKSRYF105Z10
C258		nsp	nsp	CKSRYF105Z10
C265		nsp	nsp	CKSRYF105Z10
C298		nsp	nsp	CKSRYF105Z10
C299		nsp	nsp	CKSRYF105Z10
C310		nsp	nsp	CKSRYF105Z10
C319		nsp	nsp	CKSRYF105Z10
C328		nsp	nsp	CKSRYF105Z10
C329		nsp	nsp	CKSRYF105Z10
C361		nsp	nsp	CKSRYF105Z10
C393		nsp	nsp	CKSRYF105Z10
C400		nsp	nsp	CKSRYF105Z10
C404		nsp	nsp	CKSRYF105Z10
C406		nsp	nsp	CKSRYF105Z10
C408		nsp	nsp	CKSRYF105Z10
C411		nsp	nsp	CKSRYF105Z10
C451		nsp	nsp	CKSRYF105Z10
C491		nsp	nsp	CKSRYF105Z10
C532		nsp	nsp	CKSRYF105Z10
C542		nsp	nsp	CKSRYF105Z10
C543		nsp	nsp	CKSRYF105Z10
C602		nsp	nsp	CKSRYF105Z10
C603		nsp	nsp	CKSRYF105Z10
C604		nsp	nsp	CKSRYF105Z10
C605		nsp	nsp	CKSRYF105Z10
C607		nsp	nsp	CKSRYF105Z10
C608		nsp	nsp	CKSRYF105Z10
C610		nsp	nsp	CKSRYF105Z10
C613		nsp	nsp	CKSRYF105Z10
C614		nsp	nsp	CKSRYF105Z10
C615		nsp	nsp	CKSRYF105Z10
C616		nsp	nsp	CKSRYF105Z10
C618		nsp	nsp	CKSRYF105Z10
C622		nsp	nsp	CKSRYF105Z10
C626		nsp	nsp	CKSRYF105Z10
C628		nsp	nsp	CKSRYF105Z10
C631		nsp	nsp	CKSRYF105Z10
C657		nsp	nsp	CKSRYF105Z10
C658		nsp	nsp	CKSRYF105Z10
C703		nsp	nsp	CKSRYF105Z10
C704		nsp	nsp	CKSRYF105Z10
C708		nsp	nsp	CKSRYF105Z10
C715		nsp	nsp	CKSRYF105Z10
C721		nsp	nsp	CKSRYF105Z10
C727		nsp	nsp	CKSRYF105Z10
C730		nsp	nsp	CKSRYF105Z10
C740		nsp	nsp	CKSRYF105Z10
C743		nsp	nsp	CKSRYF105Z10
C749		nsp	nsp	CKSRYF105Z10
C753		nsp	nsp	CKSRYF105Z10
C757		nsp	nsp	CKSRYF105Z10
C762		nsp	nsp	CKSRYF105Z10
C774		nsp	nsp	CKSRYF105Z10
C775		nsp	nsp	CKSRYF105Z10
C776		nsp	nsp	CKSRYF105Z10
C777		nsp	nsp	CKSRYF105Z10
C778		nsp	nsp	CKSRYF105Z10
C783		nsp	nsp	CKSRYF105Z10
C796		nsp	nsp	CKSRYF105Z10
C804		nsp	nsp	CKSRYF105Z10
C807		nsp	nsp	CKSRYF105Z10
C808		nsp	nsp	CKSRYF105Z10

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION
C810		nsp	nsp	CKSRYF105Z10
C812		nsp	nsp	CKSRYF105Z10
C820		nsp	nsp	CKSRYF105Z10
C821		nsp	nsp	CKSRYF105Z10
C823		nsp	nsp	CKSRYF105Z10
C824		nsp	nsp	CKSRYF105Z10
C825		nsp	nsp	CKSRYF105Z10
C826		nsp	nsp	CKSRYF105Z10
C827		nsp	nsp	CKSRYF105Z10
C828		nsp	nsp	CKSRYF105Z10
C829		nsp	nsp	CKSRYF105Z10
C830		nsp	nsp	CKSRYF105Z10
C835		nsp	nsp	CKSRYF105Z10
C836		nsp	nsp	CKSRYF105Z10
C838		nsp	nsp	CKSRYF105Z10
C841		nsp	nsp	CKSRYF105Z10
C842		nsp	nsp	CKSRYF105Z10
C843		nsp	nsp	CKSRYF105Z10
C847		nsp	nsp	CKSRYF105Z10
C848		nsp	nsp	CKSRYF105Z10
C856		nsp	nsp	CKSRYF105Z10
C859		nsp	nsp	CKSRYF105Z10
C862		nsp	nsp	CKSRYF105Z10
C863		nsp	nsp	CKSRYF105Z10
C865		nsp	nsp	CKSRYF105Z10
C867		nsp	nsp	CKSRYF105Z10
C873		nsp	nsp	CKSRYF105Z10
C874		nsp	nsp	CKSRYF105Z10
C877		nsp	nsp	CKSRYF105Z10
C880		nsp	nsp	CKSRYF105Z10
C882		nsp	nsp	CKSRYF105Z10
C883		nsp	nsp	CKSRYF105Z10
C888		nsp	nsp	CKSRYF105Z10
C894		nsp	nsp	CKSRYF105Z10
C898		nsp	nsp	CKSRYF105Z10
C901		nsp	nsp	CKSRYF105Z10
C903		nsp	nsp	CKSRYF105Z10
C905		nsp	nsp	CKSRYF105Z10
C906		nsp	nsp	CKSRYF105Z10
C907		nsp	nsp	CKSRYF105Z10
C908		nsp	nsp	CKSRYF105Z10
C911		nsp	nsp	CKSRYF105Z10
C912		nsp	nsp	CKSRYF105Z10
C913		nsp	nsp	CKSRYF105Z10
C918		nsp	nsp	CKSRYF105Z10
C918		nsp	nsp	CKSRYF105Z10
C920		nsp	nsp	CKSRYF105Z10
C923		nsp	nsp	CKSRYF105Z10
C924		nsp	nsp	CKSRYF105Z10
C925		nsp	nsp	CKSRYF105Z10
C926		nsp	nsp	CKSRYF105Z10
C929		nsp	nsp	CKSRYF105Z10
C933		nsp	nsp	CKSRYF105Z10
C934		nsp	nsp	CKSRYF105Z10
C938		nsp	nsp	CKSRYF105Z10
C942		nsp	nsp	CKSRYF105Z10
C945		nsp	nsp	CKSRYF105Z10
C948		nsp	nsp	CKSRYF105Z10
C949		nsp	nsp	CKSRYF105Z10
C956		nsp	nsp	CKSRYF105Z10
C957		nsp	nsp	CKSRYF105Z10
C965		nsp	nsp	CKSRYF105Z10
C974		nsp	nsp	CKSRYF105Z10
C980		nsp	nsp	CKSRYF105Z10

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
C986		nsp	nsp		CKSRYF105Z10
C988		nsp	nsp		CKSRYF105Z10
C991		nsp	nsp		CKSRYF105Z10
C993		nsp	nsp		CKSRYF105Z10
C994		nsp	nsp		CKSRYF105Z10
C995		nsp	nsp		CKSRYF105Z10
C129		nsp	nsp	100µF/6.3V	VCH1194
C149		nsp	nsp	100µF/6.3V	VCH1194
C403		nsp	nsp	100µF/6.3V	VCH1194
C205		nsp	nsp	150µF/4V	VCH1195
C405		nsp	nsp	150µF/4V	VCH1195
C452		nsp	nsp	150µF/4V	VCH1195
C472		nsp	nsp	150µF/4V	VCH1195
C601		nsp	nsp	150µF/4V	VCH1195
C623		nsp	nsp	150µF/4V	VCH1195
C700		nsp	nsp	150µF/4V	VCH1195
C702		nsp	nsp	150µF/4V	VCH1195
C801		nsp	nsp	150µF/4V	VCH1195
C840		nsp	nsp	150µF/4V	VCH1195
C904		nsp	nsp	150µF/4V	VCH1195
C941		nsp	nsp	150µF/4V	VCH1195
C996		nsp	nsp	150µF/4V	VCH1195
C367		nsp	nsp	33µF/16V	VCH1197
				DVDM -RESISTORS	
R800		nsp	nsp		RAB4C0R0J
R895		nsp	nsp		RAB4C0R0J
R543		nsp	nsp		R744 RAB4C103J
R545		nsp	nsp		R744 RAB4C103J
R631		nsp	nsp		R744 RAB4C103J
R714		nsp	nsp		R744 RAB4C103J
R903		nsp	nsp		RAB4C103J
R931		nsp	nsp		RAB4C103J
R934		nsp	nsp		RAB4C103J
R940		nsp	nsp		RAB4C103J
R121		nsp	nsp		RAB4C220J
R757		nsp	nsp		RAB4C220J
R763		nsp	nsp		RAB4C220J
R790		nsp	nsp		RAB4C220J
R868		nsp	nsp		RAB4C220J
R873		nsp	nsp		RAB4C220J
R123		nsp	nsp		RAB4C470J
R202		nsp	nsp		RS1/10S101J
R341		nsp	nsp		RS1/10S101J
R126		nsp	nsp		RS1/10S220J
R127		nsp	nsp		RS1/10S220J
R128		nsp	nsp		RS1/10S220J
R129		nsp	nsp		RS1/10S220J
R176		nsp	nsp		RS1/10S220J
R177		nsp	nsp		RS1/10S220J
R178		nsp	nsp		RS1/10S220J
R179		nsp	nsp		RS1/10S220J
R287		nsp	nsp		RS1/16S1002F
R364		nsp	nsp		RS1/16S1003F
R369		nsp	nsp		RS1/16S1003F
R373		nsp	nsp		RS1/16S1003F
R375		nsp	nsp		RS1/16S1003F
R289		nsp	nsp		RS1/16S1503F
R358		nsp	nsp		RS1/16S1503F
R361		nsp	nsp		RS1/16S1503F
R288		nsp	nsp		RS1/16S2201F
R357		nsp	nsp		RS1/16S6802F
R362		nsp	nsp		RS1/16S6802F
R363		nsp	nsp		RS1/16S6802F

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
R368		nsp	nsp		RS1/16S6802F
R372		nsp	nsp		RS1/16S6802F
R374		nsp	nsp		RS1/16S6802F
R257		nsp	nsp	1.0Ω 1/4W	VCN1127
R258		nsp	nsp	2.2Ω 1/4W	VCN1128
R259		nsp	nsp	2.2Ω 1/4W	VCN1128
Other Resistors		nsp	nsp		RS1/16S&&&J
				DVDM -OTHERS	
CN602		*YJ002530R	*YJ002530R	FFC CONNECTOR	DKN1196
CN104		*YJ002540R	*YJ002540R	4P CONNECTOR	DKN1223
CN103		nsp	nsp	CONNECTOR	S5B-PH-SM3
		nsp	nsp	FLEXIBLE CABLE	VDA1681
CN101		*YJ002550R	*YJ002550R	FFC CONNECT0R	VKN1787
CN401		*YJ002560R	*YJ002560R	B TO B CONNECTOR 40P	VKN1788
CN501		*YJ002560R	*YJ002560R	B TO B CONNECTOR 40P	VKN1788
CN105		*YJ002570R	*YJ002570R	12P CONNECTOR	VKN1795
X481		*JX000940R	*JX000940R	27.000MHz	VSS1159
X601		*JX000950R	*JX000950R	16.5MHz	VSS1160

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NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\ \boxed{6}\ \boxed{1}$ J
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\ \boxed{7}\ \boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\ \boxed{5}\ \boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\ \boxed{R}\ \boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\ \boxed{6}\ \boxed{2}\ \boxed{1}$ F